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ALCOHOL TABLES;

GIVING

FOR ALL SPECIFIC GRAVITIES, FROM 1.0000 TO 0.7938,

THE PERCENTAGES OF ABSOLUTE ALCOHOL,

BY WEIGHT AND VOLUME,

AND OF PROOF SPIRIT.

BY

OTTO HEHNER, F.C.S.

REPRINTED FROM "THE ANALYST."

PRICE, 3s. 6d.

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104.



ALCOHOL TABLES;

GIVING

FOR ALL SPECIFIC GRAVITIES, FROM 1.0000 TO 0.7988,

THE PERCENTAGES

OF

ABSOLUTE ALCOHOL, BY WEIGHT AND VOLUME,
AND OF PROOF SPIRIT,

FOUNDED UPON THE TABLES OF FOWNES AND DRINKWATER,

AND CALCULATED BY

OTTO HEHNER, F.C.S.,

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Society of Public Analysts; Public Analyst for the Isle of Wight and the Borough
of Ryde; Co-Author of "Butter, its Analysis and Adulterations," &c., &c.*



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INTRODUCTION.

Every chemist who has to make alcohol determinations, must have felt the want of *complete* Alcohol Tables, such as would give for all possible specific gravities from pure water to absolute alcohol, the percentages of alcohol by weight, by volume, and of proof spirit. A great number of elaborate tables are in existence, and are to be found in every comprehensive work on chemistry, but there is none, as far as I am aware, which answers the requirements, giving at a glance the data above mentioned, without entailing the trouble of a calculation.

To meet that want, the following tables have been compiled and calculated.

The excellent tables of Fownes—giving the percentages by weight, of Gay Lussac—giving volumina, and of Drinkwater, are all at present in use, but unfortunately they do not agree absolutely with each other: thus, for instance, absolute alcohol according to Fownes and Kopp has a specific gravity at 15·5° C. of 0·7988, and according to Gay Lussac of 0·7946. All later investigators having confirmed the general accuracy of Fownes' table (which gives whole percentages only), this has been taken as the basis of calculation. But it became necessary to include in the table the specific gravity of proof spirit, which according to Drinkwater is 0·9198, corresponding to 49·24 per cent. of alcohol by weight, in the tables, since all excise calculations are based upon proof spirit. According to Fownes, however, a specific gravity of 0·9198 does *not* correspond to 49·24 per cent. of alcohol, but to 49·37 per cent. This figure was consequently dove-tailed into the tables with as low gradients as possible.

The following rules were followed in the calculations.

To convert—

$$\text{Weight into volume} = \frac{\text{Specific gravity} \times \text{per cent. weight.}}{0\cdot7988}$$

$$\text{Volume into weight} = \frac{0\cdot7988 \times \text{per cent. volume.}}{\text{Specific gravity.}}$$

Volume into proof spirit = per cent. volume \times 1.7525.

Weight into proof spirit = per cent. weight \times specific gravity \times 2.20771.

Degrees under proof are obtained by subtracting percentages of proof spirit lower than 100 from that figure, and degrees over proof by the subtraction of 100 from percentages of proof spirit lying between proof and absolute alcohol.

All figures were calculated to the third decimal, and then abbreviated to the second.

The greatest possible care has been taken to exclude mistakes, and although it can hardly be hoped that such be entirely absent—considering that the table includes thousands of figures—they will, it is hoped, in no case, be found serious.

No originality whatever is claimed for these tables, and if they be but found to save some trouble and calculation, the large amount of work which they embody will not have been expended in vain.

54, HOLBORN VIADUCT,
LONDON, E.C.

OTTO HEHNER.

ALCOHOL TABLES.

Gravity 30° F. = 5·5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15·5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
1000	.. 0·00 ..	.. 0·00 ..	.. 0·00 ..				
·9999	.. 0·05 ..	.. 0·07 ..	.. 0·12 ..	·9959	.. 2·33 ..	.. 2·93 ..	.. 5·13 ..
8	.. 0·11 ..	.. 0·13 ..	.. 0·23 ..	8	.. 2·39 ..	.. 3·00 ..	.. 5·25 ..
7	.. 0·16 ..	.. 0·20 ..	.. 0·35 ..	7	.. 2·44 ..	.. 3·07 ..	.. 5·37 ..
6	.. 0·21 ..	.. 0·26 ..	.. 0·46 ..	6	.. 2·50 ..	.. 3·14 ..	.. 5·49 ..
5	.. 0·26 ..	.. 0·33 ..	.. 0·58 ..	5	.. 2·56 ..	.. 3·21 ..	.. 5·61 ..
4	.. 0·32 ..	.. 0·40 ..	.. 0·70 ..	4	.. 2·61 ..	.. 3·28 ..	.. 5·74 ..
3	.. 0·37 ..	.. 0·46 ..	.. 0·81 ..	3	.. 2·67 ..	.. 3·35 ..	.. 5·86 ..
2	.. 0·42 ..	.. 0·53 ..	.. 0·93 ..	2	.. 2·72 ..	.. 3·42 ..	.. 5·98 ..
1	.. 0·47 ..	.. 0·60 ..	.. 1·04 ..	1	.. 2·78 ..	.. 3·49 ..	.. 6·10 ..
0	.. 0·53 ..	.. 0·66 ..	.. 1·16 ..	0	.. 2·83 ..	.. 3·55 ..	.. 6·22 ..
9989	.. 0·58 ..	.. 0·73 ..	.. 1·28 ..	·9949	.. 2·89 ..	.. 3·62 ..	.. 6·34 ..
8	.. 0·63 ..	.. 0·79 ..	.. 1·39 ..	8	.. 2·94 ..	.. 3·69 ..	.. 6·47 ..
7	.. 0·68 ..	.. 0·86 ..	.. 1·51 ..	7	.. 3·00 ..	.. 3·76 ..	.. 6·58 ..
6	.. 0·74 ..	.. 0·93 ..	.. 1·62 ..	6	.. 3·06 ..	.. 3·83 ..	.. 6·72 ..
5	.. 0·79 ..	.. 0·99 ..	.. 1·74 ..	5	.. 3·12 ..	.. 3·90 ..	.. 6·84 ..
4	.. 0·84 ..	.. 1·06 ..	.. 1·86 ..	4	.. 3·18 ..	.. 3·98 ..	.. 6·97 ..
3	.. 0·89 ..	.. 1·13 ..	.. 1·97 ..	3	.. 3·24 ..	.. 4·05 ..	.. 7·10 ..
2	.. 0·95 ..	.. 1·19 ..	.. 2·09 ..	2	.. 3·29 ..	.. 4·12 ..	.. 7·23 ..
1	.. 1·00 ..	.. 1·26 ..	.. 2·20 ..	1	.. 3·35 ..	.. 4·20 ..	.. 7·36 ..
0	.. 1·06 ..	.. 1·34 ..	.. 2·34 ..	0	.. 3·41 ..	.. 4·27 ..	.. 7·49 ..
9979	.. 1·12 ..	.. 1·42 ..	.. 2·48 ..	·9939	.. 3·47 ..	.. 4·34 ..	.. 7·61 ..
8	.. 1·19 ..	.. 1·49 ..	.. 2·61 ..	8	.. 3·53 ..	.. 4·42 ..	.. 7·74 ..
7	.. 1·25 ..	.. 1·57 ..	.. 2·75 ..	7	.. 3·59 ..	.. 4·49 ..	.. 7·87 ..
6	.. 1·31 ..	.. 1·65 ..	.. 2·89 ..	6	.. 3·65 ..	.. 4·56 ..	.. 8·00 ..
5	.. 1·37 ..	.. 1·73 ..	.. 3·03 ..	5	.. 3·71 ..	.. 4·63 ..	.. 8·13 ..
4	.. 1·44 ..	.. 1·81 ..	.. 3·16 ..	4	.. 3·76 ..	.. 4·71 ..	.. 8·26 ..
3	.. 1·50 ..	.. 1·88 ..	.. 3·30 ..	3	.. 3·82 ..	.. 4·78 ..	.. 8·38 ..
2	.. 1·56 ..	.. 1·96 ..	.. 3·44 ..	2	.. 3·88 ..	.. 4·85 ..	.. 8·51 ..
1	.. 1·62 ..	.. 2·04 ..	.. 3·58 ..	1	.. 3·94 ..	.. 4·93 ..	.. 8·64 ..
0	.. 1·69 ..	.. 2·12 ..	.. 3·71 ..	0	.. 4·00 ..	.. 5·00 ..	.. 8·77 ..
9969	.. 1·75 ..	.. 2·20 ..	.. 3·85 ..	·9929	.. 4·06 ..	.. 5·08 ..	.. 8·90 ..
8	.. 1·81 ..	.. 2·27 ..	.. 3·99 ..	8	.. 4·12 ..	.. 5·16 ..	.. 9·04 ..
7	.. 1·87 ..	.. 2·35 ..	.. 4·12 ..	7	.. 4·19 ..	.. 5·24 ..	.. 9·18 ..
6	.. 1·94 ..	.. 2·43 ..	.. 4·26 ..	6	.. 4·25 ..	.. 5·32 ..	.. 9·31 ..
5	.. 2·00 ..	.. 2·51 ..	.. 4·40 ..	5	.. 4·31 ..	.. 5·39 ..	.. 9·45 ..
4	.. 2·06 ..	.. 2·58 ..	.. 4·52 ..	4	.. 4·37 ..	.. 5·47 ..	.. 9·58 ..
3	.. 2·11 ..	.. 2·62 ..	.. 4·64 ..	3	.. 4·44 ..	.. 5·55 ..	.. 9·72 ..
2	.. 2·17 ..	.. 2·72 ..	.. 4·76 ..	2	.. 4·50 ..	.. 5·63 ..	.. 9·86 ..
1	.. 2·22 ..	.. 2·79 ..	.. 4·89 ..	1	.. 4·56 ..	.. 5·71 ..	.. 9·99 ..
0	.. 2·28 ..	.. 2·86 ..	.. 5·01 ..	0	.. 4·62 ..	.. 5·78 ..	.. 10·13 ..

ALCOHOL TABLES.

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9919	4.69	5.86	10.26	9869	8.00	9.95	17.43
8	4.75	5.94	10.40	8	8.07	10.03	17.58
7	4.81	6.02	10.54	7	8.14	10.12	17.74
6	4.87	6.10	10.67	6	8.21	10.21	17.89
5	4.94	6.17	10.81	5	8.29	10.30	18.04
4	5.00	6.24	10.94	4	8.36	10.38	18.20
3	5.06	6.32	11.08	3	8.43	10.47	18.35
2	5.12	6.40	11.21	2	8.50	10.56	18.50
1	5.19	6.48	11.35	1	8.57	10.65	18.65
0	5.25	6.55	11.49	0	8.64	10.73	18.81
9909	5.31	6.63	11.62	9859	8.71	10.82	18.96
8	5.37	6.71	11.76	8	8.79	10.91	19.11
7	5.44	6.78	11.89	7	8.86	11.00	19.27
6	5.50	6.86	12.03	6	8.93	11.08	19.42
5	5.56	6.94	12.16	5	9.00	11.17	19.58
4	5.62	7.01	12.30	4	9.07	11.26	19.73
3	5.69	7.09	12.43	3	9.14	11.35	19.89
2	5.75	7.17	12.57	2	9.21	11.44	20.04
1	5.81	7.25	12.70	1	9.29	11.52	20.19
0	5.87	7.32	12.84	0	9.36	11.61	20.35
9899	5.94	7.40	12.97	9849	9.43	11.70	20.50
8	6.00	7.48	13.11	8	9.50	11.79	20.65
7	6.07	7.57	13.27	7	9.57	11.87	20.81
6	6.14	7.66	13.42	6	9.64	11.96	20.96
5	6.21	7.74	13.57	5	9.71	12.05	21.11
4	6.28	7.83	13.73	4	9.79	12.13	21.27
3	6.36	7.92	13.88	3	9.86	12.22	21.42
2	6.43	8.01	14.04	2	9.93	12.31	21.57
1	6.50	8.10	14.19	1	10.00	12.40	21.73
0	6.57	8.18	14.35	0	10.08	12.49	21.89
9889	6.64	8.27	14.50	9839	10.15	12.58	22.06
8	6.71	8.36	14.66	8	10.23	12.68	22.22
7	6.78	8.45	14.81	7	10.31	12.77	22.38
6	6.86	8.54	14.96	6	10.38	12.87	22.55
5	6.93	8.63	15.12	5	10.46	12.96	22.71
4	7.00	8.72	15.27	4	10.54	13.05	22.88
3	7.07	8.80	15.42	3	10.62	13.15	23.04
2	7.13	8.88	15.56	2	10.69	13.24	23.21
1	7.20	8.96	15.70	1	10.77	13.34	23.37
0	7.27	9.04	15.85	0	10.85	13.43	23.54
9879	7.33	9.13	15.99	9829	10.92	13.52	23.70
8	7.40	9.21	16.14	8	11.00	13.62	23.86
7	7.47	9.29	16.28	7	11.08	13.71	24.03
6	7.53	9.37	16.42	6	11.15	13.81	24.19
5	7.60	9.45	16.57	5	11.23	13.90	24.36
4	7.67	9.54	16.71	4	11.31	13.99	24.52
3	7.73	9.62	16.86	3	11.38	14.09	24.69
2	7.80	9.70	17.00	2	11.46	14.18	24.85
1	7.87	9.78	17.14	1	11.54	14.27	25.01
0	7.93	9.86	17.29	0	11.62	14.37	25.18

ALCOHOL TABLES.

3

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·9819	.. 11.69 ..	.. 14.46 ..	.. 25.34 ..	·9769	.. 15.75 ..	.. 19.39 ..	.. 33.96 ..
8	.. 11.77 ..	.. 14.56 ..	.. 25.51 ..	8	.. 15.83 ..	.. 19.49 ..	.. 34.14 ..
7	.. 11.85 ..	.. 14.65 ..	.. 25.67 ..	7	.. 15.92 ..	.. 19.59 ..	.. 34.32 ..
6	.. 11.92 ..	.. 14.74 ..	.. 25.83 ..	6	.. 16.00 ..	.. 19.68 ..	.. 34.50 ..
5	.. 12.00 ..	.. 14.84 ..	.. 26.00 ..	5	.. 16.08 ..	.. 19.78 ..	.. 34.66 ..
4	.. 12.08 ..	.. 14.93 ..	.. 26.17 ..	4	.. 16.15 ..	.. 19.87 ..	.. 34.82 ..
3	.. 12.15 ..	.. 15.02 ..	.. 26.33 ..	3	.. 16.23 ..	.. 19.96 ..	.. 34.98 ..
2	.. 12.23 ..	.. 15.12 ..	.. 26.49 ..	2	.. 16.31 ..	.. 20.06 ..	.. 35.14 ..
1	.. 12.31 ..	.. 15.21 ..	.. 26.66 ..	1	.. 16.38 ..	.. 20.15 ..	.. 35.31 ..
0	.. 12.38 ..	.. 15.30 ..	.. 26.82 ..	0	.. 16.46 ..	.. 20.24 ..	.. 35.47 ..
·9809	.. 12.46 ..	.. 15.40 ..	.. 26.99 ..	·9759	.. 16.54 ..	.. 20.33 ..	.. 35.63 ..
8	.. 12.54 ..	.. 15.49 ..	.. 27.15 ..	8	.. 16.62 ..	.. 20.43 ..	.. 35.79 ..
7	.. 12.62 ..	.. 15.58 ..	.. 27.31 ..	7	.. 16.69 ..	.. 20.52 ..	.. 35.95 ..
6	.. 12.69 ..	.. 15.68 ..	.. 27.48 ..	6	.. 16.77 ..	.. 20.61 ..	.. 36.12 ..
5	.. 12.77 ..	.. 15.77 ..	.. 27.64 ..	5	.. 16.85 ..	.. 20.71 ..	.. 36.28 ..
4	.. 12.85 ..	.. 15.86 ..	.. 27.81 ..	4	.. 16.92 ..	.. 20.80 ..	.. 36.44 ..
3	.. 12.92 ..	.. 15.96 ..	.. 27.97 ..	3	.. 17.00 ..	.. 20.89 ..	.. 36.60 ..
2	.. 13.00 ..	.. 16.05 ..	.. 28.13 ..	2	.. 17.08 ..	.. 20.99 ..	.. 36.78 ..
1	.. 13.08 ..	.. 16.15 ..	.. 28.29 ..	1	.. 17.17 ..	.. 21.09 ..	.. 36.95 ..
0	.. 13.15 ..	.. 16.24 ..	.. 28.46 ..	0	.. 17.25 ..	.. 21.19 ..	.. 37.13 ..
·9799	.. 13.23 ..	.. 16.33 ..	.. 28.62 ..	·9749	.. 17.33 ..	.. 21.29 ..	.. 37.30 ..
8	.. 13.31 ..	.. 16.43 ..	.. 28.78 ..	8	.. 17.42 ..	.. 21.39 ..	.. 37.48 ..
7	.. 13.38 ..	.. 16.52 ..	.. 28.95 ..	7	.. 17.50 ..	.. 21.49 ..	.. 37.65 ..
6	.. 13.46 ..	.. 16.61 ..	.. 29.11 ..	6	.. 17.58 ..	.. 21.59 ..	.. 37.83 ..
5	.. 13.54 ..	.. 16.70 ..	.. 29.27 ..	5	.. 17.67 ..	.. 21.69 ..	.. 38.00 ..
4	.. 13.62 ..	.. 16.80 ..	.. 29.43 ..	4	.. 17.75 ..	.. 21.79 ..	.. 38.18 ..
3	.. 13.69 ..	.. 16.89 ..	.. 29.60 ..	3	.. 17.83 ..	.. 21.89 ..	.. 38.35 ..
2	.. 13.77 ..	.. 16.98 ..	.. 29.76 ..	2	.. 17.92 ..	.. 21.99 ..	.. 38.53 ..
1	.. 13.85 ..	.. 17.08 ..	.. 29.92 ..	1	.. 18.00 ..	.. 22.09 ..	.. 38.71 ..
0	.. 13.92 ..	.. 17.17 ..	.. 30.09 ..	0	.. 18.08 ..	.. 22.18 ..	.. 38.87 ..
·9789	.. 14.00 ..	.. 17.26 ..	.. 30.26 ..	·9739	.. 18.15 ..	.. 22.27 ..	.. 39.03 ..
8	.. 14.09 ..	.. 17.37 ..	.. 30.45 ..	8	.. 18.23 ..	.. 22.36 ..	.. 39.13 ..
7	.. 14.18 ..	.. 17.48 ..	.. 30.64 ..	7	.. 18.31 ..	.. 22.46 ..	.. 39.35 ..
6	.. 14.27 ..	.. 17.59 ..	.. 30.83 ..	6	.. 18.38 ..	.. 22.55 ..	.. 39.51 ..
5	.. 14.36 ..	.. 17.70 ..	.. 31.03 ..	5	.. 18.46 ..	.. 22.64 ..	.. 39.68 ..
4	.. 14.45 ..	.. 17.81 ..	.. 31.22 ..	4	.. 18.54 ..	.. 22.73 ..	.. 39.84 ..
3	.. 14.55 ..	.. 17.92 ..	.. 31.41 ..	3	.. 18.62 ..	.. 22.82 ..	.. 40.00 ..
2	.. 14.64 ..	.. 18.03 ..	.. 31.61 ..	2	.. 18.69 ..	.. 22.92 ..	.. 40.16 ..
1	.. 14.73 ..	.. 18.14 ..	.. 31.80 ..	1	.. 18.77 ..	.. 23.01 ..	.. 40.32 ..
0	.. 14.82 ..	.. 18.25 ..	.. 31.99 ..	0	.. 18.85 ..	.. 23.10 ..	.. 40.48 ..
·9779	.. 14.91 ..	.. 18.36 ..	.. 32.19 ..	·9729	.. 18.92 ..	.. 23.19 ..	.. 40.64 ..
8	.. 15.00 ..	.. 18.48 ..	.. 32.38 ..	8	.. 19.00 ..	.. 23.28 ..	.. 40.80 ..
7	.. 15.08 ..	.. 18.58 ..	.. 32.56 ..	7	.. 19.08 ..	.. 23.38 ..	.. 40.98 ..
6	.. 15.17 ..	.. 18.68 ..	.. 32.73 ..	6	.. 19.17 ..	.. 23.48 ..	.. 41.15 ..
5	.. 15.25 ..	.. 18.78 ..	.. 32.91 ..	5	.. 19.25 ..	.. 23.58 ..	.. 41.33 ..
4	.. 15.33 ..	.. 18.88 ..	.. 33.08 ..	4	.. 19.33 ..	.. 23.68 ..	.. 41.50 ..
3	.. 15.42 ..	.. 18.98 ..	.. 33.26 ..	3	.. 19.42 ..	.. 23.78 ..	.. 41.68 ..
2	.. 15.50 ..	.. 19.08 ..	.. 33.44 ..	2	.. 19.50 ..	.. 23.88 ..	.. 41.85 ..
1	.. 15.58 ..	.. 19.18 ..	.. 33.61 ..	1	.. 19.58 ..	.. 23.98 ..	.. 42.03 ..
0	.. 15.67 ..	.. 19.28 ..	.. 33.79 ..	0	.. 19.67 ..	.. 24.08 ..	.. 42.20 ..

ALCOHOL TABLES.

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9719	19.75	24.18	42.38	9669	23.69	28.86	50.57
8	19.83	24.28	42.55	8	23.77	28.95	50.73
7	19.92	24.38	42.73	7	23.85	29.04	50.89
6	20.00	24.48	42.90	6	23.92	29.13	51.05
5	20.08	24.58	43.07	5	24.00	29.22	51.21
4	20.17	24.68	43.25	4	24.08	29.31	51.37
3	20.25	24.78	43.42	3	24.15	29.40	51.53
2	20.33	24.88	43.60	2	24.23	29.49	51.69
1	20.42	24.98	43.77	1	24.31	29.58	51.84
0	20.50	25.07	43.94	0	24.38	29.67	52.00
9709	20.58	25.17	44.12	9659	24.46	29.76	52.16
8	20.67	25.27	44.29	8	24.54	29.86	52.32
7	20.75	25.37	44.47	7	24.62	29.95	52.48
6	20.83	25.47	44.64	6	24.69	30.04	52.64
5	20.92	25.57	44.81	5	24.77	30.13	52.80
4	21.00	25.67	44.99	4	24.85	30.22	52.95
3	21.08	25.76	45.15	3	24.92	30.31	53.11
2	21.15	25.86	45.31	2	25.00	30.40	53.27
1	21.23	25.95	45.47	1	25.07	30.48	53.42
0	21.31	26.04	45.63	0	25.14	30.57	53.56
9699	21.38	26.13	45.79	9649	25.21	30.65	53.71
8	21.46	26.22	45.95	8	25.29	30.73	53.86
7	21.54	26.31	46.11	7	25.36	30.82	54.00
6	21.62	26.40	46.27	6	25.43	30.90	54.15
5	21.69	26.49	46.43	5	25.50	30.98	54.30
4	21.77	26.58	46.59	4	25.57	31.07	54.44
3	21.85	26.67	46.75	3	25.64	31.15	54.59
2	21.92	26.77	46.91	2	25.71	31.23	54.74
1	22.00	26.86	47.07	1	25.79	31.32	54.88
0	22.08	26.95	47.23	0	25.86	31.40	55.03
9689	22.15	27.04	47.39	9639	25.93	31.48	55.18
8	22.23	27.13	47.55	8	26.00	31.57	55.32
7	22.31	27.22	47.70	7	26.07	31.65	55.46
6	22.38	27.31	47.86	6	26.13	31.72	55.59
5	22.46	27.40	48.02	5	26.20	31.80	55.73
4	22.54	27.49	48.18	4	26.27	31.88	55.87
3	22.62	27.59	48.34	3	26.33	31.96	56.00
2	22.69	27.68	48.50	2	26.40	32.03	56.14
1	22.77	27.77	48.66	1	26.47	32.11	56.27
0	22.85	27.86	48.82	0	26.53	32.19	56.41
9679	22.92	27.95	48.98	9629	26.60	32.27	56.55
8	23.00	28.04	49.14	8	26.67	32.34	56.68
7	23.08	28.13	49.30	7	26.73	32.42	56.82
6	23.15	28.22	49.46	6	26.80	32.50	56.95
5	23.23	28.31	49.62	5	26.87	32.58	57.09
4	23.31	28.41	49.78	4	26.93	32.65	57.23
3	23.38	28.50	49.94	3	27.00	32.73	57.36
2	23.46	28.59	50.10	2	27.07	32.81	57.51
1	23.54	28.68	50.25	1	27.14	32.90	57.65
0	23.62	28.77	50.41	0	27.21	32.98	57.80

ALCOHOL TABLES.

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Sp. Gravity at 60° F.= 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F.= 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9619	27.29	33.06	57.94	9569	30.50	36.76	64.43
8	27.86	33.15	58.09	8	30.56	36.83	64.54
7	27.43	33.23	58.24	7	30.61	36.89	64.65
6	27.50	33.31	58.38	6	30.67	36.95	64.76
5	27.57	33.39	58.53	5	30.72	37.02	64.87
4	27.64	33.48	58.67	4	30.78	37.08	64.98
3	27.71	33.56	58.82	3	30.83	37.14	65.10
2	27.79	33.64	58.97	2	30.89	37.20	65.21
1	27.86	33.73	59.11	1	30.94	37.27	65.32
0	27.93	33.81	59.26	0	31.00	37.34	65.43
9609	28.00	33.89	59.40	9559	31.06	37.41	65.55
8	28.06	33.97	59.53	8	31.12	37.48	65.68
7	28.12	34.04	59.65	7	31.19	37.55	65.80
6	28.19	34.11	59.78	6	31.25	37.62	65.93
5	28.25	34.18	59.90	5	31.31	37.69	66.05
4	28.31	34.25	60.03	4	31.37	37.76	66.18
3	28.37	34.33	60.16	3	31.44	37.83	66.30
2	28.44	34.40	60.28	2	31.50	37.90	66.43
1	28.50	34.47	60.41	1	31.56	37.97	66.55
0	28.56	34.54	60.53	0	31.62	38.04	66.68
9599	28.62	34.61	60.66	9549	31.69	38.11	66.80
8	28.69	34.69	60.79	8	31.75	38.18	66.93
7	28.75	34.76	60.91	7	31.81	38.25	67.05
6	28.81	34.83	61.04	6	31.87	38.33	67.17
5	28.87	34.90	61.16	5	31.94	38.40	67.30
4	28.94	34.97	61.29	4	32.00	38.47	67.42
3	29.00	35.05	61.42	3	32.06	38.53	67.55
2	29.07	35.12	61.55	2	32.12	38.60	67.67
1	29.13	35.20	61.69	1	32.19	38.68	67.80
0	29.20	35.28	61.82	0	32.25	38.75	67.92
9589	29.27	35.35	61.95	9539	32.31	38.82	68.04
8	29.33	35.43	62.09	8	32.37	38.89	68.17
7	29.40	35.51	62.22	7	32.44	38.96	68.29
6	29.47	35.58	62.36	6	32.50	39.04	68.42
5	29.53	35.66	62.49	5	32.56	39.11	68.54
4	29.60	35.74	62.63	4	32.62	39.18	68.67
3	29.67	35.81	62.76	3	32.69	39.25	68.79
2	29.73	35.89	62.90	2	32.75	39.32	68.92
1	29.80	35.97	63.03	1	32.81	39.40	69.04
0	29.87	36.04	63.17	0	32.87	39.47	69.16
9579	29.93	36.12	63.30	9529	32.94	39.54	69.29
8	30.00	36.20	63.43	8	33.00	39.61	69.41
7	30.06	36.26	63.55	7	33.06	39.68	69.53
6	30.11	36.32	63.66	6	33.12	39.74	69.65
5	30.17	36.39	63.77	5	33.18	39.81	69.76
4	30.22	36.45	63.88	4	33.24	39.87	69.88
3	30.28	36.51	63.99	3	33.29	39.94	69.99
2	30.33	36.57	64.10	2	33.35	40.01	70.11
1	30.39	36.64	64.21	1	33.41	40.07	70.23
0	30.44	36.70	64.32	0	33.47	40.14	70.34

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·9519	.. 33.53 ..	.. 40.20 ..	.. 70.46 ..	·9469	.. 36.06 ..	.. 43.01 ..	.. 75.37 ..
8	.. 33.59 ..	.. 40.27 ..	.. 70.57 ..	8	.. 36.11 ..	.. 43.07 ..	.. 75.48 ..
7	.. 33.65 ..	.. 40.34 ..	.. 70.69 ..	7	.. 36.17 ..	.. 43.13 ..	.. 75.59 ..
6	.. 33.71 ..	.. 40.40 ..	.. 70.81 ..	6	.. 36.22 ..	.. 43.19 ..	.. 75.70 ..
5	.. 33.76 ..	.. 40.47 ..	.. 70.92 ..	5	.. 36.28 ..	.. 43.26 ..	.. 75.80 ..
4	.. 33.82 ..	.. 40.53 ..	.. 71.04 ..	4	.. 36.33 ..	.. 43.32 ..	.. 75.91 ..
3	.. 33.88 ..	.. 40.60 ..	.. 71.15 ..	3	.. 36.39 ..	.. 43.38 ..	.. 76.02 ..
2	.. 33.94 ..	.. 40.67 ..	.. 71.27 ..	2	.. 36.44 ..	.. 43.44 ..	.. 76.13 ..
1	.. 34.00 ..	.. 40.74 ..	.. 71.39 ..	1	.. 36.50 ..	.. 43.50 ..	.. 76.24 ..
0	.. 34.05 ..	.. 40.79 ..	.. 71.48 ..	0	.. 36.56 ..	.. 43.56 ..	.. 76.34 ..
·9509	.. 34.10 ..	.. 40.84 ..	.. 71.58 ..	·9459	.. 36.61 ..	.. 43.63 ..	.. 76.45 ..
8	.. 34.14 ..	.. 40.90 ..	.. 71.67 ..	8	.. 36.67 ..	.. 43.69 ..	.. 76.56 ..
7	.. 34.19 ..	.. 40.95 ..	.. 71.76 ..	7	.. 36.72 ..	.. 43.75 ..	.. 76.67 ..
6	.. 34.24 ..	.. 41.00 ..	.. 71.85 ..	6	.. 36.78 ..	.. 43.81 ..	.. 76.78 ..
5	.. 34.29 ..	.. 41.05 ..	.. 71.94 ..	5	.. 36.83 ..	.. 43.87 ..	.. 76.88 ..
4	.. 34.33 ..	.. 41.11 ..	.. 72.04 ..	4	.. 36.89 ..	.. 43.93 ..	.. 76.99 ..
3	.. 34.38 ..	.. 41.16 ..	.. 72.13 ..	3	.. 36.94 ..	.. 44.00 ..	.. 77.10 ..
2	.. 34.43 ..	.. 41.21 ..	.. 72.22 ..	2	.. 37.00 ..	.. 44.06 ..	.. 77.21 ..
1	.. 34.48 ..	.. 41.26 ..	.. 72.31 ..	1	.. 37.06 ..	.. 44.12 ..	.. 77.32 ..
0	.. 34.52 ..	.. 41.32 ..	.. 72.41 ..	0	.. 37.11 ..	.. 44.18 ..	.. 77.42 ..
·9499	.. 34.57 ..	.. 41.37 ..	.. 72.50 ..	·9449	.. 37.17 ..	.. 44.24 ..	.. 77.53 ..
8	.. 34.62 ..	.. 41.42 ..	.. 72.59 ..	8	.. 37.22 ..	.. 44.30 ..	.. 77.64 ..
7	.. 34.67 ..	.. 41.48 ..	.. 72.68 ..	7	.. 37.28 ..	.. 44.36 ..	.. 77.75 ..
6	.. 34.71 ..	.. 41.53 ..	.. 72.78 ..	6	.. 37.33 ..	.. 44.43 ..	.. 77.85 ..
5	.. 34.76 ..	.. 41.58 ..	.. 72.87 ..	5	.. 37.39 ..	.. 44.49 ..	.. 77.96 ..
4	.. 34.81 ..	.. 41.63 ..	.. 72.96 ..	4	.. 37.44 ..	.. 44.55 ..	.. 78.07 ..
3	.. 34.86 ..	.. 41.69 ..	.. 73.05 ..	3	.. 37.50 ..	.. 44.61 ..	.. 78.18 ..
2	.. 34.90 ..	.. 41.74 ..	.. 73.14 ..	2	.. 37.56 ..	.. 44.67 ..	.. 78.28 ..
1	.. 34.95 ..	.. 41.79 ..	.. 73.24 ..	1	.. 37.61 ..	.. 44.73 ..	.. 78.39 ..
0	.. 35.00 ..	.. 41.84 ..	.. 73.33 ..	0	.. 37.67 ..	.. 44.79 ..	.. 78.50 ..
·9489	.. 35.05 ..	.. 41.90 ..	.. 73.43 ..	·9439	.. 37.72 ..	.. 44.86 ..	.. 78.61 ..
8	.. 35.10 ..	.. 41.95 ..	.. 73.52 ..	8	.. 37.78 ..	.. 44.92 ..	.. 78.71 ..
7	.. 35.15 ..	.. 42.01 ..	.. 73.62 ..	7	.. 37.83 ..	.. 44.98 ..	.. 78.82 ..
6	.. 35.20 ..	.. 42.06 ..	.. 73.72 ..	6	.. 37.89 ..	.. 45.04 ..	.. 78.93 ..
5	.. 35.25 ..	.. 42.12 ..	.. 73.81 ..	5	.. 37.94 ..	.. 45.10 ..	.. 79.04 ..
4	.. 35.30 ..	.. 42.17 ..	.. 73.91 ..	4	.. 38.00 ..	.. 45.16 ..	.. 79.14 ..
3	.. 35.35 ..	.. 42.23 ..	.. 74.01 ..	3	.. 38.06 ..	.. 45.22 ..	.. 79.25 ..
2	.. 35.40 ..	.. 42.29 ..	.. 74.10 ..	2	.. 38.11 ..	.. 45.28 ..	.. 79.36 ..
1	.. 35.45 ..	.. 42.34 ..	.. 74.20 ..	1	.. 38.17 ..	.. 45.34 ..	.. 79.46 ..
0	.. 35.50 ..	.. 42.40 ..	.. 74.30 ..	0	.. 38.22 ..	.. 45.41 ..	.. 79.57 ..
·9479	.. 35.55 ..	.. 42.45 ..	.. 74.39 ..	·9429	.. 38.28 ..	.. 45.47 ..	.. 79.68 ..
8	.. 35.60 ..	.. 42.51 ..	.. 74.49 ..	8	.. 38.33 ..	.. 45.53 ..	.. 79.79 ..
7	.. 35.65 ..	.. 42.56 ..	.. 74.59 ..	7	.. 38.39 ..	.. 45.59 ..	.. 79.89 ..
6	.. 35.70 ..	.. 42.62 ..	.. 74.68 ..	6	.. 38.44 ..	.. 45.65 ..	.. 80.00 ..
5	.. 35.75 ..	.. 42.67 ..	.. 74.78 ..	5	.. 38.50 ..	.. 45.71 ..	.. 80.11 ..
4	.. 35.80 ..	.. 42.73 ..	.. 74.88 ..	4	.. 38.56 ..	.. 45.77 ..	.. 80.21 ..
3	.. 35.85 ..	.. 42.78 ..	.. 74.97 ..	3	.. 38.61 ..	.. 45.83 ..	.. 80.32 ..
2	.. 35.90 ..	.. 42.84 ..	.. 75.07 ..	2	.. 38.67 ..	.. 45.89 ..	.. 80.43 ..
1	.. 35.95 42.89 75.17 ..	1	.. 38.72 45.95 80.53 ..
0	.. 36.00 42.95 75.26 ..	0	.. 38.78 46.02 80.64 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9419	.. 38.83 ..	.. 46.08 ..	.. 80.75 ..	9369	.. 41.35 ..	.. 48.80 ..	.. 85.53 ..
8	.. 38.89 ..	.. 46.14 ..	.. 80.86 ..	8	.. 41.40 ..	.. 48.86 ..	.. 85.62 ..
7	.. 38.94 ..	.. 46.20 ..	.. 80.96 ..	7	.. 41.45 ..	.. 48.91 ..	.. 85.71 ..
6	.. 39.00 ..	.. 46.26 ..	.. 81.07 ..	6	.. 41.50 ..	.. 48.97 ..	.. 85.81 ..
5	.. 39.05 ..	.. 46.32 ..	.. 81.17 ..	5	.. 41.55 ..	.. 49.02 ..	.. 85.90 ..
4	.. 39.10 ..	.. 46.37 ..	.. 81.26 ..	4	.. 41.60 ..	.. 49.07 ..	.. 86.00 ..
3	.. 39.15 ..	.. 46.42 ..	.. 81.36 ..	3	.. 41.65 ..	.. 49.13 ..	.. 86.09 ..
2	.. 39.20 ..	.. 46.48 ..	.. 81.45 ..	2	.. 41.70 ..	.. 49.18 ..	.. 86.18 ..
1	.. 39.25 ..	.. 46.53 ..	.. 81.55 ..	1	.. 41.75 ..	.. 49.23 ..	.. 86.28 ..
0	.. 39.30 ..	.. 46.59 ..	.. 81.64 ..	0	.. 41.80 ..	.. 49.29 ..	.. 86.37 ..
9409	.. 39.35 ..	.. 46.64 ..	.. 81.74 ..	9359	.. 41.85 ..	.. 49.34 ..	.. 86.47 ..
8	.. 39.40 ..	.. 46.70 ..	.. 81.83 ..	8	.. 41.90 ..	.. 49.40 ..	.. 86.56 ..
7	.. 39.45 ..	.. 46.75 ..	.. 81.93 ..	7	.. 41.95 ..	.. 49.45 ..	.. 86.65 ..
6	.. 39.50 ..	.. 46.80 ..	.. 82.02 ..	6	.. 42.00 ..	.. 49.50 ..	.. 86.75 ..
5	.. 39.55 ..	.. 46.86 ..	.. 82.12 ..	5	.. 42.05 ..	.. 49.55 ..	.. 86.84 ..
4	.. 39.60 ..	.. 46.91 ..	.. 82.21 ..	4	.. 42.10 ..	.. 49.61 ..	.. 86.93 ..
3	.. 39.65 ..	.. 46.97 ..	.. 82.31 ..	3	.. 42.14 ..	.. 49.66 ..	.. 87.02 ..
2	.. 39.70 ..	.. 47.02 ..	.. 82.40 ..	2	.. 42.19 ..	.. 49.71 ..	.. 87.11 ..
1	.. 39.75 ..	.. 47.08 ..	.. 82.50 ..	1	.. 42.24 ..	.. 49.76 ..	.. 87.20 ..
0	.. 39.80 ..	.. 47.13 ..	.. 82.59 ..	0	.. 42.29 ..	.. 49.81 ..	.. 87.29 ..
9399	.. 39.85 ..	.. 47.18 ..	.. 82.69 ..	9349	.. 42.33 ..	.. 49.86 ..	.. 87.37 ..
8	.. 39.90 ..	.. 47.24 ..	.. 82.78 ..	8	.. 42.38 ..	.. 49.91 ..	.. 87.46 ..
7	.. 39.95 ..	.. 47.29 ..	.. 82.88 ..	7	.. 42.43 ..	.. 49.96 ..	.. 87.55 ..
6	.. 40.00 ..	.. 47.35 ..	.. 82.97 ..	6	.. 42.48 ..	.. 50.01 ..	.. 87.64 ..
5	.. 40.05 ..	.. 47.40 ..	.. 83.07 ..	5	.. 42.52 ..	.. 50.06 ..	.. 87.73 ..
4	.. 40.10 ..	.. 47.45 ..	.. 83.16 ..	4	.. 42.57 ..	.. 50.11 ..	.. 87.82 ..
3	.. 40.15 ..	.. 47.51 ..	.. 83.26 ..	3	.. 42.62 ..	.. 50.16 ..	.. 87.91 ..
2	.. 40.20 ..	.. 47.56 ..	.. 83.35 ..	2	.. 42.67 ..	.. 50.21 ..	.. 88.00 ..
1	.. 40.25 ..	.. 47.62 ..	.. 83.45 ..	1	.. 42.71 ..	.. 50.26 ..	.. 88.09 ..
0	.. 40.30 ..	.. 47.67 ..	.. 83.54 ..	0	.. 42.76 ..	.. 50.31 ..	.. 88.18 ..
9389	.. 40.35 ..	.. 47.72 ..	.. 83.64 ..	9339	.. 42.81 ..	.. 50.37 ..	.. 88.26 ..
8	.. 40.40 ..	.. 47.78 ..	.. 83.73 ..	8	.. 42.86 ..	.. 50.42 ..	.. 88.35 ..
7	.. 40.45 ..	.. 47.83 ..	.. 83.83 ..	7	.. 42.90 ..	.. 50.47 ..	.. 88.44 ..
6	.. 40.50 ..	.. 47.89 ..	.. 83.92 ..	6	.. 42.95 ..	.. 50.52 ..	.. 88.53 ..
5	.. 40.55 ..	.. 47.94 ..	.. 84.02 ..	5	.. 43.00 ..	.. 50.57 ..	.. 88.62 ..
4	.. 40.60 ..	.. 47.99 ..	.. 84.11 ..	4	.. 43.05 ..	.. 50.62 ..	.. 88.71 ..
3	.. 40.65 ..	.. 48.05 ..	.. 84.21 ..	3	.. 43.10 ..	.. 50.67 ..	.. 88.79 ..
2	.. 40.70 ..	.. 48.10 ..	.. 84.30 ..	2	.. 43.14 ..	.. 50.72 ..	.. 88.88 ..
1	.. 40.75 ..	.. 48.16 ..	.. 84.39 ..	1	.. 43.19 ..	.. 50.77 ..	.. 88.97 ..
0	.. 40.80 ..	.. 48.21 ..	.. 84.49 ..	0	.. 43.24 ..	.. 50.82 ..	.. 89.06 ..
9379	.. 40.85 ..	.. 48.26 ..	.. 84.58 ..	9329	.. 43.29 ..	.. 50.87 ..	.. 89.15 ..
8	.. 40.90 ..	.. 48.32 ..	.. 84.68 ..	8	.. 43.33 ..	.. 50.92 ..	.. 89.24 ..
7	.. 40.95 ..	.. 48.37 ..	.. 84.77 ..	7	.. 43.39 ..	.. 50.97 ..	.. 89.33 ..
6	.. 41.00 ..	.. 48.43 ..	.. 84.87 ..	6	.. 43.43 ..	.. 51.02 ..	.. 89.41 ..
5	.. 41.05 ..	.. 48.48 ..	.. 84.96 ..	5	.. 43.48 ..	.. 51.07 ..	.. 89.50 ..
4	.. 41.10 ..	.. 48.54 ..	.. 85.06 ..	4	.. 43.52 ..	.. 51.12 ..	.. 89.59 ..
3	.. 41.15 ..	.. 48.59 ..	.. 85.15 ..	3	.. 43.57 ..	.. 51.17 ..	.. 89.68 ..
2	.. 41.20 ..	.. 48.64 ..	.. 85.24 ..	2	.. 43.62 ..	.. 51.22 ..	.. 89.77 ..
1	.. 41.25 ..	.. 48.70 ..	.. 85.34 ..	1	.. 43.67 ..	.. 51.27 ..	.. 89.86 ..
0	.. 41.30 ..	.. 48.75 ..	.. 85.43 ..	0	.. 43.71 ..	.. 51.32 ..	.. 89.95 ..

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9319	43.76 ..	51.38 ..	90.03 ..	9269	46.05 ..	53.77 ..	94.22 ..
8	43.81 ..	51.43 ..	90.12 ..	8	46.09 ..	53.81 ..	94.31 ..
7	43.86 ..	51.48 ..	90.21 ..	7	46.14 ..	53.86 ..	94.39 ..
6	43.90 ..	51.53 ..	90.30 ..	6	46.18 ..	53.91 ..	94.47 ..
5	43.95 ..	51.58 ..	90.39 ..	5	46.23 ..	53.95 ..	94.55 ..
4	44.00 ..	51.63 ..	90.48 ..	4	46.27 ..	54.00 ..	94.64 ..
3	44.05 ..	51.68 ..	90.56 ..	3	46.32 ..	54.05 ..	94.72 ..
2	44.09 ..	51.72 ..	90.64 ..	2	46.36 ..	54.10 ..	94.80 ..
1	44.14 ..	51.77 ..	90.73 ..	1	46.41 ..	54.14 ..	94.89 ..
0	44.18 ..	51.82 ..	90.81 ..	0	46.46 ..	54.19 ..	94.97 ..
9309	44.23 ..	51.87 ..	90.89 ..	9259	46.50 ..	54.24 ..	95.05 ..
8	44.27 ..	51.91 ..	90.98 ..	8	46.55 ..	54.29 ..	95.13 ..
7	44.32 ..	51.96 ..	91.06 ..	7	46.59 ..	54.33 ..	95.22 ..
6	44.36 ..	52.01 ..	91.14 ..	6	46.64 ..	54.38 ..	95.30 ..
5	44.41 ..	52.06 ..	91.23 ..	5	46.68 ..	54.43 ..	95.38 ..
4	44.46 ..	52.10 ..	91.31 ..	4	46.73 ..	54.47 ..	95.46 ..
3	44.50 ..	52.15 ..	91.39 ..	3	46.77 ..	54.52 ..	95.55 ..
2	44.55 ..	52.20 ..	91.48 ..	2	46.82 ..	54.57 ..	95.63 ..
1	44.59 ..	52.25 ..	91.56 ..	1	46.86 ..	54.62 ..	95.71 ..
0	44.64 ..	52.29 ..	91.64 ..	0	46.91 ..	54.66 ..	95.79 ..
9299	44.68 ..	52.34 ..	91.73 ..	9249	46.96 ..	54.71 ..	95.88 ..
8	44.73 ..	52.39 ..	91.81 ..	8	47.00 ..	54.76 ..	95.96 ..
7	44.77 ..	52.44 ..	91.90 ..	7	47.05 ..	54.80 ..	96.04 ..
6	44.82 ..	52.48 ..	91.98 ..	6	47.09 ..	54.85 ..	96.12 ..
5	44.86 ..	52.53 ..	92.06 ..	5	47.14 ..	54.90 ..	96.21 ..
4	44.91 ..	52.58 ..	92.15 ..	4	47.18 ..	54.95 ..	96.29 ..
3	44.96 ..	52.63 ..	92.23 ..	3	47.23 ..	54.99 ..	96.37 ..
2	45.00 ..	52.68 ..	92.31 ..	2	47.27 ..	55.04 ..	96.45 ..
1	45.05 ..	52.72 ..	92.40 ..	1	47.32 ..	55.09 ..	96.53 ..
0	45.09 ..	52.77 ..	92.48 ..	0	47.36 ..	55.13 ..	96.62 ..
9289	45.14 ..	52.82 ..	92.56 ..	9239	47.41 ..	55.18 ..	96.70 ..
8	45.18 ..	52.87 ..	92.64 ..	8	47.46 ..	55.23 ..	96.78 ..
7	45.23 ..	52.91 ..	92.73 ..	7	47.50 ..	55.27 ..	96.86 ..
6	45.27 ..	52.96 ..	92.81 ..	6	47.55 ..	55.32 ..	96.95 ..
5	45.32 ..	53.01 ..	92.89 ..	5	47.59 ..	55.37 ..	97.03 ..
4	45.36 ..	53.06 ..	92.98 ..	4	47.64 ..	55.41 ..	97.11 ..
3	45.41 ..	53.10 ..	93.06 ..	3	47.68 ..	55.46 ..	97.19 ..
2	45.46 ..	53.15 ..	93.14 ..	2	47.73 ..	55.51 ..	97.27 ..
1	45.50 ..	53.20 ..	93.23 ..	1	47.77 ..	55.55 ..	97.36 ..
0	45.55 ..	53.24 ..	93.31 ..	0	47.82 ..	55.60 ..	97.44 ..
9279	45.59 ..	53.29 ..	93.39 ..	9229	47.86 ..	55.65 ..	97.52 ..
8	45.64 ..	53.34 ..	93.48 ..	8	47.91 ..	55.69 ..	97.60 ..
7	45.68 ..	53.39 ..	93.56 ..	7	47.96 ..	55.74 ..	97.68 ..
6	45.73 ..	53.43 ..	93.64 ..	6	48.00 ..	55.79 ..	97.77 ..
5	45.77 ..	53.48 ..	93.73 ..	5	48.05 ..	55.83 ..	97.85 ..
4	45.82 ..	53.53 ..	93.81 ..	4	48.09 ..	55.88 ..	97.93 ..
3	45.86 ..	53.58 ..	93.89 ..	3	48.14 ..	55.93 ..	98.01 ..
2	45.91 ..	53.62 ..	93.98 ..	2	48.18 ..	55.97 ..	98.09 ..
1	45.96 ..	53.67 ..	94.06 ..	1	48.23 ..	56.02 ..	98.18 ..
0	46.00 ..	53.72 ..	94.14 ..	0	48.27 ..	56.07 ..	98.26 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
9219	48.32	56.11	98.34	9169	50.57	58.41	102.35
8	48.36	56.16	98.42	8	50.61	58.45	102.43
7	48.41	56.21	98.50	7	50.65	58.50	102.51
6	48.46	56.25	98.59	6	50.70	58.54	102.59
5	48.50	56.30	98.67	5	50.74	58.58	102.66
4	48.55	56.35	98.75	4	50.78	58.63	102.74
3	48.59	56.40	98.83	3	50.83	58.67	102.82
2	48.64	56.44	98.91	2	50.87	58.72	102.89
1	48.68	56.49	99.00	1	50.91	58.76	102.97
0	48.73	56.54	99.08	0	50.96	58.80	103.05
9209	48.77	56.58	99.16	9159	51.00	58.85	103.12
8	48.82	56.63	99.24	8	51.04	58.89	103.20
7	48.86	56.68	99.32	7	51.08	58.93	103.27
6	48.91	56.72	99.41	6	51.13	58.97	103.34
5	48.96	56.77	99.49	5	51.17	59.01	103.41
4	49.00	56.82	99.57	4	51.21	59.05	103.49
3	49.04	56.86	99.64	3	51.25	59.09	103.56
2	49.08	56.90	99.71	2	51.29	59.14	103.63
1	49.12	56.94	99.78	1	51.33	59.18	103.71
0	49.16	56.98	99.86	0	51.38	59.22	103.78
9199	49.20	57.02	99.93	9149	51.42	59.26	103.85
PROOF, 8	49.24	57.06	100.00	8	51.46	59.30	103.92
7	49.29	57.10	100.08	7	51.50	59.34	104.00
6	49.34	57.15	100.17	6	51.54	59.39	104.07
5	49.39	57.20	100.25	5	51.58	59.43	104.14
4	49.44	57.25	100.34	4	51.63	59.47	104.21
3	49.49	57.30	100.42	3	51.67	59.51	104.29
2	49.54	57.35	100.51	2	51.71	59.55	104.36
1	49.59	57.40	100.59	1	51.75	59.59	104.43
0	49.64	57.45	100.68	0	51.79	59.63	104.50
9189	49.68	57.49	100.76	9139	51.83	59.68	104.58
8	49.73	57.54	100.85	8	51.88	59.72	104.65
7	49.77	57.59	100.93	7	51.92	59.76	104.72
6	49.82	57.64	101.02	6	51.96	59.80	104.80
5	49.86	57.69	101.10	5	52.00	59.84	104.87
4	49.91	57.74	101.19	4	52.05	59.89	104.95
3	49.95	57.79	101.27	3	52.09	59.93	105.03
2	50.00	57.84	101.36	2	52.14	59.98	105.11
1	50.04	57.88	101.43	1	52.18	60.02	105.19
0	50.09	58.92	101.51	0	52.23	60.07	105.27
9179	50.13	57.97	101.59	9129	52.27	60.12	105.35
8	50.17	58.01	101.66	8	52.32	60.16	105.43
7	50.22	58.06	101.74	7	52.36	60.21	105.51
6	50.26	58.10	101.82	6	52.41	60.25	105.59
5	50.30	58.14	101.89	5	52.45	60.30	105.67
4	50.35	58.19	101.97	4	52.50	60.34	105.75
3	50.39	58.23	102.05	3	52.55	60.39	105.83
2	50.43	58.28	102.12	2	52.59	60.44	105.91
1	50.48	58.32	102.20	1	52.64	60.47	105.98
0	50.52	58.36	102.28	0	52.68	60.52	106.07

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·9119	.. 52·73 ..	.. 60·56 ..	106·15 ..	·9069	.. 55·00 ..	.. 62·84 ..	.. 110·12 ..
8	.. 52·77 ..	.. 60·61 ..	.. 106·23 ..	8	.. 55·05 ..	.. 62·88 ..	.. 110·20 ..
7	.. 52·82 ..	.. 60·65 ..	.. 106·31 ..	7	.. 55·09 ..	.. 62·93 ..	.. 110·28 ..
6	.. 52·86 ..	.. 60·70 ..	.. 106·39 ..	6	.. 55·14 ..	.. 62·97 ..	.. 110·36 ..
5	.. 52·91 ..	.. 60·74 ..	.. 106·47 ..	5	.. 55·18 ..	.. 63·02 ..	.. 110·44 ..
4	.. 52·95 ..	.. 60·79 ..	.. 106·55 ..	4	.. 55·23 ..	.. 63·06 ..	.. 110·52 ..
3	.. 53·00 ..	.. 60·85 ..	.. 106·63 ..	3	.. 55·27 ..	.. 63·11 ..	.. 110·60 ..
2	.. 53·04 ..	.. 60·89 ..	.. 106·71 ..	2	.. 55·32 ..	.. 63·15 ..	.. 110·68 ..
1	.. 53·09 ..	.. 60·93 ..	.. 106·78 ..	1	.. 55·36 ..	.. 63·20 ..	.. 110·76 ..
0	.. 53·13 ..	.. 60·97 ..	.. 106·86 ..	0	.. 55·41 ..	.. 63·24 ..	.. 110·84 ..
·9109	.. 53·17 ..	.. 61·02 ..	106·93 ..	·9059	.. 55·45 ..	.. 63·28 ..	110·92 ..
8	.. 53·22 ..	.. 61·06 ..	.. 107·01 ..	8	.. 55·50 ..	.. 63·33 ..	.. 111·00 ..
7	.. 53·26 ..	.. 61·10 ..	.. 107·08 ..	7	.. 55·55 ..	.. 63·37 ..	.. 111·08 ..
6	.. 53·30 ..	.. 61·15 ..	.. 107·16 ..	6	.. 55·59 ..	.. 63·42 ..	.. 111·16 ..
5	.. 53·35 ..	.. 61·19 ..	.. 107·23 ..	5	.. 55·64 ..	.. 63·46 ..	.. 111·24 ..
4	.. 53·39 ..	.. 61·23 ..	.. 107·31 ..	4	.. 55·68 ..	.. 63·51 ..	.. 111·32 ..
3	.. 53·43 ..	.. 61·28 ..	.. 107·38 ..	3	.. 55·73 ..	.. 63·55 ..	.. 111·40 ..
2	.. 53·48 ..	.. 61·32 ..	.. 107·46 ..	2	.. 55·77 ..	.. 63·60 ..	.. 111·48 ..
1	.. 53·52 ..	.. 61·36 ..	.. 107·54 ..	1	.. 55·82 ..	.. 63·64 ..	.. 111·56 ..
0	.. 53·57 ..	.. 61·40 ..	.. 107·61 ..	0	.. 55·86 ..	.. 63·69 ..	.. 111·64 ..
·9099	.. 53·61 ..	.. 61·45 ..	107·69 ..	·9049	.. 55·91 ..	.. 63·73 ..	.. 111·71 ..
8	.. 53·65 ..	.. 61·49 ..	.. 107·76 ..	8	.. 55·95 ..	.. 63·78 ..	.. 111·79 ..
7	.. 53·70 ..	.. 61·53 ..	.. 107·84 ..	7	.. 56·00 ..	.. 63·82 ..	.. 111·87 ..
6	.. 53·74 ..	.. 61·58 ..	.. 107·91 ..	6	.. 56·05 ..	.. 63·87 ..	.. 111·95 ..
5	.. 53·78 ..	.. 61·62 ..	.. 107·99 ..	5	.. 56·09 ..	.. 63·91 ..	.. 112·03 ..
4	.. 53·83 ..	.. 61·66 ..	.. 108·06 ..	4	.. 56·14 ..	.. 63·96 ..	.. 112·10 ..
3	.. 53·87 ..	.. 61·71 ..	.. 108·14 ..	3	.. 56·18 ..	.. 64·00 ..	.. 112·18 ..
2	.. 53·91 ..	.. 61·75 ..	.. 108·21 ..	2	.. 56·23 ..	.. 64·05 ..	.. 112·26 ..
1	.. 53·96 ..	.. 61·79 ..	.. 108·29 ..	1	.. 56·27 ..	.. 64·09 ..	.. 112·34 ..
0	.. 54·00 ..	.. 61·84 ..	.. 108·36 ..	0	.. 56·32 ..	.. 64·14 ..	.. 112·41 ..
·9089	.. 54·05 ..	.. 61·88 ..	108·45 ..	·9039	.. 56·36 ..	.. 64·18 ..	112·49 ..
8	.. 54·10 ..	.. 61·93 ..	.. 108·53 ..	8	.. 56·41 ..	.. 64·22 ..	.. 112·57 ..
7	.. 54·14 ..	.. 61·98 ..	.. 108·62 ..	7	.. 56·45 ..	.. 64·27 ..	.. 112·64 ..
6	.. 54·19 ..	.. 62·03 ..	.. 108·70 ..	6	.. 56·50 ..	.. 64·31 ..	.. 112·72 ..
5	.. 54·24 ..	.. 62·07 ..	.. 108·78 ..	5	.. 56·55 ..	.. 64·36 ..	.. 112·80 ..
4	.. 54·29 ..	.. 62·12 ..	.. 108·87 ..	4	.. 56·59 ..	.. 64·40 ..	.. 112·87 ..
3	.. 54·33 ..	.. 62·17 ..	.. 108·95 ..	3	.. 56·64 ..	.. 64·45 ..	.. 112·95 ..
2	.. 54·38 ..	.. 62·22 ..	.. 109·03 ..	2	.. 56·68 ..	.. 64·49 ..	.. 113·03 ..
1	.. 54·43 ..	.. 62·26 ..	.. 109·12 ..	1	.. 56·73 ..	.. 64·54 ..	.. 113·11 ..
0	.. 54·48 ..	.. 62·31 ..	.. 109·20 ..	0	.. 56·77 ..	.. 64·58 ..	.. 113·18 ..
·9079	.. 54·52 ..	.. 62·36 ..	109·28 ..	·9029	.. 56·82 ..	.. 64·63 ..	113·26 ..
8	.. 54·57 ..	.. 62·41 ..	.. 109·37 ..	8	.. 56·86 ..	.. 64·67 ..	.. 113·34 ..
7	.. 54·62 ..	.. 62·45 ..	.. 109·45 ..	7	.. 56·91 ..	.. 64·71 ..	.. 113·41 ..
6	.. 54·67 ..	.. 62·50 ..	.. 109·53 ..	6	.. 56·95 ..	.. 64·76 ..	.. 113·49 ..
5	.. 54·71 ..	.. 62·55 ..	.. 109·62 ..	5	.. 57·00 ..	.. 64·80 ..	.. 113·57 ..
4	.. 54·76 ..	.. 62·60 ..	.. 109·70 ..	4	.. 57·04 ..	.. 64·85 ..	.. 113·64 ..
3	.. 54·81 ..	.. 62·65 ..	.. 109·78 ..	3	.. 57·08 ..	.. 64·89 ..	.. 113·71 ..
2	.. 54·86 ..	.. 62·69 ..	.. 109·87 ..	2	.. 57·13 ..	.. 64·93 ..	.. 113·78 ..
1	.. 54·90 62·74 109·95 ..	1	.. 57·17 64·97 113·85 ..
0	.. 54·95 62·79 110·03 ..	0	.. 57·21 65·01 113·92 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·9019	.. 57.25 ..	.. 65.05 ..	113.99 ..	·8969	.. 59.43 ..	.. 67.15 ..	.. 117.68 ..
8	.. 57.29 ..	.. 65.09 ..	.. 114.06 ..	8	.. 59.48 ..	.. 67.19 ..	.. 117.76 ..
7	.. 57.33 ..	.. 65.13 ..	.. 114.13 ..	7	.. 59.52 ..	.. 67.24 ..	.. 117.83 ..
6	.. 57.38 ..	.. 65.17 ..	.. 114.20 ..	6	.. 59.57 ..	.. 67.28 ..	.. 117.90 ..
5	.. 57.42 ..	.. 65.21 ..	.. 114.27 ..	5	.. 59.61 ..	.. 67.32 ..	.. 117.98 ..
4	.. 57.46 ..	.. 65.25 ..	.. 114.34 ..	4	.. 59.65 ..	.. 67.36 ..	.. 118.05 ..
3	.. 57.50 ..	.. 65.29 ..	.. 114.41 ..	3	.. 59.70 ..	.. 67.40 ..	.. 118.12 ..
2	.. 57.54 ..	.. 65.33 ..	.. 114.48 ..	2	.. 59.74 ..	.. 67.44 ..	.. 118.20 ..
1	.. 57.58 ..	.. 65.37 ..	.. 114.55 ..	1	.. 59.78 ..	.. 67.49 ..	.. 118.27 ..
0	.. 57.63 ..	.. 65.41 ..	.. 114.62 ..	0	.. 59.83 ..	.. 67.53 ..	.. 118.34 ..
·9009	.. 57.67 ..	.. 65.45 ..	114.69 ..	·8959	.. 59.87 ..	.. 67.57 ..	.. 118.41 ..
8	.. 57.71 ..	.. 65.49 ..	.. 114.76 ..	8	.. 59.91 ..	.. 67.61 ..	.. 118.49 ..
7	.. 57.75 ..	.. 65.53 ..	.. 114.83 ..	7	.. 59.96 ..	.. 67.65 ..	.. 118.56 ..
6	.. 57.79 ..	.. 65.57 ..	.. 114.90 ..	6	.. 60.00 ..	.. 67.69 ..	.. 118.63 ..
5	.. 57.83 ..	.. 65.61 ..	.. 114.97 ..	5	.. 60.04 ..	.. 67.73 ..	.. 118.70 ..
4	.. 57.88 ..	.. 65.65 ..	.. 115.04 ..	4	.. 60.08 ..	.. 67.77 ..	.. 118.77 ..
3	.. 57.92 ..	.. 65.69 ..	.. 115.11 ..	3	.. 60.13 ..	.. 67.81 ..	.. 118.84 ..
2	.. 57.96 ..	.. 65.73 ..	.. 115.18 ..	2	.. 60.17 ..	.. 67.85 ..	.. 118.91 ..
1	.. 58.00 ..	.. 65.77 ..	.. 115.26 ..	1	.. 60.21 ..	.. 67.89 ..	.. 118.98 ..
0	.. 58.05 ..	.. 65.81 ..	.. 115.33 ..	0	.. 60.26 ..	.. 67.93 ..	.. 119.05 ..
·8999	.. 58.09 ..	.. 65.85 ..	115.41 ..	·8949	.. 60.29 ..	.. 67.97 ..	.. 119.12 ..
8	.. 58.14 ..	.. 65.90 ..	.. 115.49 ..	8	.. 60.33 ..	.. 68.01 ..	.. 119.18 ..
7	.. 58.18 ..	.. 65.94 ..	.. 115.57 ..	7	.. 60.38 ..	.. 68.05 ..	.. 119.25 ..
6	.. 58.23 ..	.. 65.99 ..	.. 115.64 ..	6	.. 60.42 ..	.. 68.09 ..	.. 119.32 ..
5	.. 58.27 ..	.. 66.03 ..	.. 115.72 ..	5	.. 60.46 ..	.. 68.13 ..	.. 119.39 ..
4	.. 58.32 ..	.. 66.07 ..	.. 115.80 ..	4	.. 60.50 ..	.. 68.17 ..	.. 119.46 ..
3	.. 58.36 ..	.. 66.12 ..	.. 115.87 ..	3	.. 60.54 ..	.. 68.21 ..	.. 119.53 ..
2	.. 58.41 ..	.. 66.16 ..	.. 115.95 ..	2	.. 60.58 ..	.. 68.25 ..	.. 119.60 ..
1	.. 58.45 ..	.. 66.21 ..	.. 116.03 ..	1	.. 60.63 ..	.. 68.29 ..	.. 119.67 ..
0	.. 58.50 ..	.. 66.25 ..	.. 116.11 ..	0	.. 60.67 ..	.. 68.33 ..	.. 119.74 ..
·8989	.. 58.55 ..	.. 66.29 ..	.. 116.18 ..	·8939	.. 60.71 ..	.. 68.36 ..	.. 119.80 ..
8	.. 58.59 ..	.. 66.34 ..	.. 116.26 ..	8	.. 60.76 ..	.. 68.40 ..	.. 119.87 ..
7	.. 58.64 ..	.. 66.38 ..	.. 116.34 ..	7	.. 60.79 ..	.. 68.44 ..	.. 119.94 ..
6	.. 58.68 ..	.. 66.43 ..	.. 116.42 ..	6	.. 60.83 ..	.. 68.48 ..	.. 120.01 ..
5	.. 58.73 ..	.. 66.47 ..	.. 116.49 ..	5	.. 60.88 ..	.. 68.52 ..	.. 120.08 ..
4	.. 58.77 ..	.. 66.51 ..	.. 116.57 ..	4	.. 60.92 ..	.. 68.56 ..	.. 120.15 ..
3	.. 58.82 ..	.. 66.56 ..	.. 116.65 ..	3	.. 60.96 ..	.. 68.60 ..	.. 120.22 ..
2	.. 58.86 ..	.. 66.60 ..	.. 116.72 ..	2	.. 61.00 ..	.. 68.64 ..	.. 120.29 ..
1	.. 58.91 ..	.. 66.65 ..	.. 116.80 ..	1	.. 61.04 ..	.. 68.68 ..	.. 120.35 ..
0	.. 58.95 ..	.. 66.69 ..	.. 116.88 ..	0	.. 61.08 ..	.. 68.72 ..	.. 120.42 ..
·8979	.. 59.00 ..	.. 66.74 ..	.. 116.96 ..	·8929	.. 61.13 ..	.. 68.76 ..	120.49 ..
8	.. 59.04 ..	.. 66.78 ..	.. 117.03 ..	8	.. 61.17 ..	.. 68.80 ..	.. 120.56 ..
7	.. 59.09 ..	.. 66.82 ..	.. 117.11 ..	7	.. 61.21 ..	.. 68.83 ..	.. 120.63 ..
6	.. 59.13 ..	.. 66.86 ..	.. 117.17 ..	6	.. 61.25 ..	.. 68.87 ..	.. 120.70 ..
5	.. 59.17 ..	.. 66.90 ..	.. 117.25 ..	5	.. 61.29 ..	.. 68.91 ..	.. 120.77 ..
4	.. 59.22 ..	.. 66.94 ..	.. 117.32 ..	4	.. 61.33 ..	.. 68.95 ..	.. 120.83 ..
3	.. 59.26 ..	.. 66.99 ..	.. 117.39 ..	3	.. 61.38 ..	.. 68.99 ..	.. 120.90 ..
2	.. 59.30 ..	.. 67.03 ..	.. 117.47 ..	2	.. 61.42 ..	.. 69.03 ..	.. 120.97 ..
1	.. 59.35 ..	.. 67.07 ..	.. 117.54 ..	1	.. 61.46 ..	.. 69.07 ..	.. 121.04 ..
0	.. 59.39 ..	.. 67.11 ..	.. 117.61 ..	0	.. 61.50 ..	.. 69.11 ..	.. 121.11 ..

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8919	.. 61.54 ..	.. 69.15 ..	.. 121.18 ..	8869	.. 63.74 ..	.. 71.22 ..	124.80 ..
8	.. 61.58 ..	.. 69.19 ..	.. 121.24 ..	8	.. 63.78 ..	.. 71.26 ..	.. 124.87 ..
7	.. 61.63 ..	.. 69.22 ..	.. 121.31 ..	7	.. 63.83 ..	.. 71.30 ..	.. 124.94 ..
6	.. 61.67 ..	.. 69.26 ..	.. 121.38 ..	6	.. 63.87 ..	.. 71.34 ..	.. 125.02 ..
5	.. 61.71 ..	.. 69.30 ..	.. 121.45 ..	5	.. 63.91 ..	.. 71.38 ..	.. 125.09 ..
4	.. 61.75 ..	.. 69.34 ..	.. 121.52 ..	4	.. 63.96 ..	.. 71.42 ..	.. 125.16 ..
3	.. 61.79 ..	.. 69.38 ..	.. 121.59 ..	3	.. 64.00 ..	.. 71.46 ..	.. 125.23 ..
2	.. 61.83 ..	.. 69.42 ..	.. 121.66 ..	2	.. 64.04 ..	.. 71.50 ..	.. 125.30 ..
1	.. 61.88 ..	.. 69.46 ..	.. 121.72 ..	1	.. 64.09 ..	.. 71.54 ..	.. 125.38 ..
0	.. 61.92 ..	.. 69.50 ..	.. 121.79 ..	0	.. 64.13 ..	.. 71.58 ..	.. 125.44 ..
8909	.. 61.96 ..	.. 69.54 ..	.. 121.86 ..	8859	.. 64.17 ..	.. 71.62 ..	.. 125.51 ..
8	.. 62.00 ..	.. 69.58 ..	.. 121.93 ..	8	.. 64.22 ..	.. 71.66 ..	.. 125.58 ..
7	.. 62.05 ..	.. 69.62 ..	.. 122.01 ..	7	.. 64.26 ..	.. 71.70 ..	.. 125.65 ..
6	.. 62.09 ..	.. 69.66 ..	.. 122.08 ..	6	.. 64.30 ..	.. 71.74 ..	.. 125.72 ..
5	.. 62.14 ..	.. 69.71 ..	.. 122.16 ..	5	.. 64.35 ..	.. 71.78 ..	.. 125.79 ..
4	.. 62.18 ..	.. 69.75 ..	.. 122.23 ..	4	.. 64.39 ..	.. 71.82 ..	.. 125.86 ..
3	.. 62.23 ..	.. 69.79 ..	.. 122.31 ..	3	.. 64.43 ..	.. 71.86 ..	.. 125.93 ..
2	.. 62.27 ..	.. 69.84 ..	.. 122.38 ..	2	.. 64.48 ..	.. 71.90 ..	.. 126.01 ..
1	.. 62.32 ..	.. 69.88 ..	.. 122.46 ..	1	.. 64.52 ..	.. 71.94 ..	.. 126.08 ..
0	.. 62.36 ..	.. 69.92 ..	.. 122.53 ..	0	.. 64.57 ..	.. 71.98 ..	.. 126.15 ..
8899	.. 62.41 ..	.. 69.96 ..	.. 122.61 ..	8849	.. 64.61 ..	.. 72.02 ..	126.22 ..
8	.. 62.45 ..	.. 70.01 ..	.. 122.68 ..	8	.. 64.65 ..	.. 72.06 ..	.. 126.29 ..
7	.. 62.50 ..	.. 70.05 ..	.. 122.76 ..	7	.. 64.70 ..	.. 72.10 ..	.. 126.36 ..
6	.. 62.55 ..	.. 70.09 ..	.. 122.84 ..	6	.. 64.74 ..	.. 72.14 ..	.. 126.43 ..
5	.. 62.59 ..	.. 70.14 ..	.. 122.91 ..	5	.. 64.78 ..	.. 72.18 ..	.. 126.50 ..
4	.. 62.64 ..	.. 70.18 ..	.. 122.99 ..	4	.. 64.83 ..	.. 72.22 ..	.. 126.57 ..
3	.. 62.68 ..	.. 70.22 ..	.. 123.06 ..	3	.. 64.87 ..	.. 72.26 ..	.. 126.64 ..
2	.. 62.73 ..	.. 70.27 ..	.. 123.14 ..	2	.. 64.91 ..	.. 72.30 ..	.. 126.71 ..
1	.. 62.77 ..	.. 70.31 ..	.. 123.21 ..	1	.. 64.96 ..	.. 72.34 ..	.. 126.78 ..
0	.. 62.82 ..	.. 70.35 ..	.. 123.29 ..	0	.. 65.00 ..	.. 72.38 ..	.. 126.85 ..
8889	.. 62.86 ..	.. 70.40 ..	123.36 ..	8839	.. 65.04 ..	.. 72.42 ..	126.92 ..
8	.. 62.91 ..	.. 70.44 ..	.. 123.44 ..	8	.. 65.08 ..	.. 72.46 ..	.. 126.99 ..
7	.. 62.95 ..	.. 70.48 ..	.. 123.52 ..	7	.. 65.13 ..	.. 72.50 ..	.. 127.05 ..
6	.. 63.00 ..	.. 70.52 ..	.. 123.59 ..	6	.. 65.17 ..	.. 72.54 ..	.. 127.12 ..
5	.. 63.04 ..	.. 70.57 ..	.. 123.66 ..	5	.. 65.21 ..	.. 72.58 ..	.. 127.19 ..
4	.. 63.09 ..	.. 70.61 ..	.. 123.73 ..	4	.. 65.25 ..	.. 72.61 ..	.. 127.25 ..
3	.. 63.13 ..	.. 70.65 ..	.. 123.80 ..	3	.. 65.29 ..	.. 72.65 ..	.. 127.32 ..
2	.. 63.17 ..	.. 70.69 ..	.. 123.88 ..	2	.. 65.33 ..	.. 72.69 ..	.. 127.39 ..
1	.. 63.22 ..	.. 70.73 ..	.. 123.95 ..	1	.. 65.38 ..	.. 72.73 ..	.. 127.45 ..
0	.. 63.26 ..	.. 70.77 ..	.. 124.02 ..	0	.. 65.42 ..	.. 72.77 ..	.. 127.52 ..
8879	.. 63.30 ..	.. 70.81 ..	124.09 ..	8829	.. 65.46 ..	.. 72.80 ..	127.59 ..
8	.. 63.35 ..	.. 70.85 ..	.. 124.16 ..	8	.. 65.50 ..	.. 72.84 ..	.. 127.65 ..
7	.. 63.39 ..	.. 70.89 ..	.. 124.23 ..	7	.. 65.54 ..	.. 72.88 ..	.. 127.72 ..
6	.. 63.43 ..	.. 70.93 ..	.. 124.30 ..	6	.. 65.58 ..	.. 72.92 ..	.. 127.79 ..
5	.. 63.48 ..	.. 70.97 ..	.. 124.37 ..	5	.. 65.63 ..	.. 72.96 ..	.. 127.85 ..
4	.. 63.52 ..	.. 71.01 ..	.. 124.44 ..	4	.. 65.67 ..	.. 72.99 ..	.. 127.92 ..
3	.. 63.57 ..	.. 71.05 ..	.. 124.52 ..	3	.. 65.71 ..	.. 73.03 ..	.. 127.99 ..
2	.. 63.61 ..	.. 71.09 ..	.. 124.59 ..	2	.. 65.75 ..	.. 73.07 ..	.. 128.05 ..
1	.. 63.65 71.13 124.66 ..	1	.. 65.79 73.11 128.12 ..
0	.. 63.70 71.17 124.73 ..	0	.. 65.83 73.15 128.19 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8819	65.88	73.19	128.25	8769	68.00	75.12	131.64
8	65.92	73.22	128.32	8	68.04	75.16	131.71
7	65.96	73.26	128.39	7	68.08	75.19	131.77
6	66.00	73.30	128.45	6	68.13	75.23	131.84
5	66.04	73.34	128.52	5	68.17	75.27	131.90
4	66.09	73.38	128.59	4	68.21	75.30	131.97
3	66.13	73.42	128.66	3	68.25	75.34	132.04
2	66.17	73.46	128.73	2	68.29	75.38	132.10
1	66.22	73.50	128.80	1	68.33	75.42	132.17
0	66.26	73.54	128.87	0	68.38	75.45	132.23
8809	66.30	73.57	128.94	8759	68.42	75.49	132.30
8	66.35	73.61	129.01	8	68.46	75.53	132.36
7	66.39	73.65	129.08	7	68.50	75.57	132.43
6	66.43	73.69	129.15	6	68.54	75.60	132.49
5	66.48	73.73	129.22	5	68.58	75.64	132.56
4	66.52	73.77	129.29	4	68.63	75.68	132.63
3	66.57	73.81	129.36	3	68.67	75.72	132.69
2	66.61	73.85	129.43	2	68.71	75.75	132.76
1	66.65	73.89	129.50	1	68.75	75.79	132.82
0	66.70	73.93	129.57	0	68.79	75.83	132.89
8799	66.74	73.97	129.64	8749	68.83	75.87	132.95
8	66.78	74.01	129.71	8	68.88	75.90	133.02
7	66.83	74.05	129.78	7	68.92	75.94	133.08
6	66.87	74.09	129.85	6	68.96	75.98	133.16
5	66.91	74.13	129.92	5	69.00	76.01	133.21
4	66.96	74.17	129.99	4	69.04	76.05	133.28
3	67.00	74.22	130.06	3	69.08	76.09	133.34
2	67.04	74.25	130.13	2	69.13	76.13	133.41
1	67.08	74.29	130.19	1	69.17	76.16	133.47
0	67.13	74.33	130.26	0	69.21	76.20	133.54
8789	67.17	74.37	130.33	8739	69.25	76.24	133.60
8	67.21	74.40	130.39	8	69.29	76.27	133.67
7	67.25	74.44	130.46	7	69.33	76.31	133.73
6	67.29	74.48	130.52	6	69.38	76.35	133.80
5	67.33	74.52	130.59	5	69.42	76.39	133.86
4	67.38	74.55	130.66	4	69.46	76.42	133.93
3	67.42	74.59	130.72	3	69.50	76.46	133.99
2	67.46	74.63	130.79	2	69.54	76.50	134.06
1	67.50	74.67	130.85	1	69.58	76.53	134.12
0	67.54	74.70	130.92	0	69.63	76.57	134.19
8779	67.58	74.74	130.98	8729	69.67	76.61	134.25
8	67.63	74.78	131.05	8	69.71	76.65	134.32
7	67.67	74.82	131.12	7	69.75	76.68	134.38
6	67.71	74.86	131.18	6	69.79	76.72	134.45
5	67.75	74.89	131.25	5	69.83	76.76	134.51
4	67.79	74.93	131.31	4	69.88	76.80	134.58
3	67.83	74.97	131.38	3	69.92	76.83	134.64
2	67.88	75.01	131.45	2	69.96	76.87	134.71
1	67.92	75.04	131.51	1	70.00	76.91	134.77
0	67.96	75.08	131.58	0	70.04	76.94	134.84

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·8719	.. 70·08 ..	.. 76·98 ..	134·90 ..	·8669	.. 72·13 ..	.. 78·77 ..	.. 138·05 ..
8	.. 70·12 ..	.. 77·01 ..	.. 134·96 ..	8	.. 72·17 ..	.. 78·81 ..	.. 138·11 ..
7	.. 70·16 ..	.. 77·05 ..	.. 135·02 ..	7	.. 72·22 ..	.. 78·85 ..	.. 138·18 ..
6	.. 70·20 ..	.. 77·08 ..	.. 135·08 ..	6	.. 72·26 ..	.. 78·89 ..	.. 138·25 ..
5	.. 70·24 ..	.. 77·12 ..	.. 135·14 ..	5	.. 72·30 ..	.. 78·93 ..	.. 138·32 ..
4	.. 70·28 ..	.. 77·15 ..	.. 135·21 ..	4	.. 72·35 ..	.. 78·96 ..	.. 138·38 ..
3	.. 70·32 ..	.. 77·19 ..	.. 135·27 ..	3	.. 72·39 ..	.. 79·00 ..	.. 138·45 ..
2	.. 70·36 ..	.. 77·22 ..	.. 135·33 ..	2	.. 72·43 ..	.. 79·04 ..	.. 138·52 ..
1	.. 70·40 ..	.. 77·25 ..	.. 135·39 ..	1	.. 72·48 ..	.. 79·08 ..	.. 138·58 ..
0	.. 70·44 ..	.. 77·29 ..	.. 135·45 ..	0	.. 72·52 ..	.. 79·12 ..	.. 138·65 ..
·8709	.. 70·48 ..	.. 77·32 ..	135·51 ..	·8659	.. 72·57 ..	.. 79·16 ..	138·72 ..
8	.. 70·52 ..	.. 77·36 ..	.. 135·57 ..	8	.. 72·61 ..	.. 79·19 ..	.. 138·79 ..
7	.. 70·56 ..	.. 77·39 ..	.. 135·64 ..	7	.. 72·65 ..	.. 79·23 ..	.. 138·85 ..
6	.. 70·60 ..	.. 77·43 ..	.. 135·70 ..	6	.. 72·70 ..	.. 79·27 ..	.. 138·92 ..
5	.. 70·64 ..	.. 77·46 ..	.. 135·76 ..	5	.. 72·74 ..	.. 79·31 ..	.. 138·99 ..
4	.. 70·68 ..	.. 77·50 ..	.. 135·82 ..	4	.. 72·78 ..	.. 79·35 ..	.. 139·05 ..
3	.. 70·72 ..	.. 77·53 ..	.. 135·88 ..	3	.. 72·83 ..	.. 79·39 ..	.. 139·12 ..
2	.. 70·76 ..	.. 77·57 ..	.. 135·94 ..	2	.. 72·87 ..	.. 79·42 ..	.. 139·19 ..
1	.. 70·80 ..	.. 77·60 ..	.. 136·00 ..	1	.. 72·91 ..	.. 79·46 ..	.. 139·26 ..
0	.. 70·84 ..	.. 77·64 ..	.. 136·07 ..	0	.. 72·96 ..	.. 79·50 ..	.. 139·32 ..
·8699	.. 70·88 ..	.. 77·67 ..	136·13 ..	·8649	.. 73·00 ..	.. 79·54 ..	.. 139·39 ..
8	.. 70·92 ..	.. 77·71 ..	.. 136·19 ..	8	.. 73·04 ..	.. 79·57 ..	.. 139·45 ..
7	.. 70·96 ..	.. 77·74 ..	.. 136·25 ..	7	.. 73·08 ..	.. 79·61 ..	.. 139·52 ..
6	.. 71·00 ..	.. 77·78 ..	.. 136·31 ..	6	.. 73·13 ..	.. 79·65 ..	.. 139·58 ..
5	.. 71·04 ..	.. 77·82 ..	.. 136·37 ..	5	.. 73·17 ..	.. 79·68 ..	.. 139·64 ..
4	.. 71·08 ..	.. 77·85 ..	.. 136·44 ..	4	.. 73·21 ..	.. 79·72 ..	.. 139·71 ..
3	.. 71·13 ..	.. 77·89 ..	.. 136·50 ..	3	.. 73·25 ..	.. 79·75 ..	.. 139·77 ..
2	.. 71·17 ..	.. 77·93 ..	.. 136·56 ..	2	.. 73·29 ..	.. 79·79 ..	.. 139·83 ..
1	.. 71·21 ..	.. 77·96 ..	.. 136·63 ..	1	.. 73·33 ..	.. 79·83 ..	.. 139·90 ..
0	.. 71·25 ..	.. 78·00 ..	.. 136·69 ..	0	.. 73·38 ..	.. 79·86 ..	.. 139·96 ..
·8689	.. 71·29 ..	.. 78·04 ..	136·76 ..	·8639	.. 73·42 ..	.. 79·90 ..	.. 140·02 ..
8	.. 71·33 ..	.. 78·07 ..	.. 136·82 ..	8	.. 73·46 ..	.. 79·94 ..	.. 140·09 ..
7	.. 71·38 ..	.. 78·11 ..	.. 136·88 ..	7	.. 73·50 ..	.. 79·97 ..	.. 140·15 ..
6	.. 71·42 ..	.. 78·14 ..	.. 136·95 ..	6	.. 73·54 ..	.. 80·01 ..	.. 140·21 ..
5	.. 71·46 ..	.. 78·18 ..	.. 137·01 ..	5	.. 73·58 ..	.. 80·04 ..	.. 140·27 ..
4	.. 71·50 ..	.. 78·22 ..	.. 137·08 ..	4	.. 73·63 ..	.. 80·08 ..	.. 140·34 ..
3	.. 71·54 ..	.. 78·25 ..	.. 137·14 ..	3	.. 73·67 ..	.. 80·12 ..	.. 140·40 ..
2	.. 71·58 ..	.. 78·29 ..	.. 137·20 ..	2	.. 73·71 ..	.. 80·15 ..	.. 140·46 ..
1	.. 71·63 ..	.. 78·33 ..	.. 137·27 ..	1	.. 73·75 ..	.. 80·19 ..	.. 140·53 ..
0	.. 71·67 ..	.. 78·36 ..	.. 137·33 ..	0	.. 73·79 ..	.. 80·22 ..	.. 140·59 ..
·8679	.. 71·71 ..	.. 78·40 ..	137·40 ..	·8629	.. 73·83 ..	.. 80·26 ..	.. 140·65 ..
8	.. 71·75 ..	.. 78·44 ..	.. 137·46 ..	8	.. 73·88 ..	.. 80·30 ..	.. 140·72 ..
7	.. 71·79 ..	.. 78·47 ..	.. 137·52 ..	7	.. 73·92 ..	.. 80·33 ..	.. 140·78 ..
6	.. 71·83 ..	.. 78·51 ..	.. 137·59 ..	6	.. 73·96 ..	.. 80·37 ..	.. 140·84 ..
5	.. 71·88 ..	.. 78·55 ..	.. 137·65 ..	5	.. 74·00 ..	.. 80·40 ..	.. 140·91 ..
4	.. 71·92 ..	.. 78·58 ..	.. 137·72 ..	4	.. 74·05 ..	.. 80·44 ..	.. 140·98 ..
3	.. 71·96 ..	.. 78·62 ..	.. 137·78 ..	3	.. 74·09 ..	.. 80·48 ..	.. 141·05 ..
2	.. 72·00 ..	.. 78·66 ..	.. 137·85 ..	2	.. 74·14 ..	.. 80·52 ..	.. 141·12 ..
1	.. 72·04 78·70 137·91 ..	1	.. 74·18 80·56 141·19 ..
0	.. 72·09 78·73 137·98 ..	0	.. 74·23 80·60 141·26 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·8619	.. 74.27 ..	.. 80.64 ..	141.33 ..	·8569	.. 76.50 ..	.. 82.58 ..	144.72 ..
8	.. 74.32 ..	.. 80.68 ..	.. 141.40 ..	8	.. 76.54 ..	.. 82.61 ..	.. 144.78 ..
7	.. 74.36 ..	.. 80.72 ..	.. 141.47 ..	7	.. 76.58 ..	.. 82.65 ..	.. 144.84 ..
6	.. 74.41 ..	.. 80.76 ..	.. 141.54 ..	6	.. 76.63 ..	.. 82.69 ..	.. 144.91 ..
5	.. 74.45 ..	.. 80.80 ..	.. 141.61 ..	5	.. 76.67 ..	.. 82.72 ..	.. 144.97 ..
4	.. 74.50 ..	.. 80.84 ..	.. 141.68 ..	4	.. 76.71 ..	.. 82.76 ..	.. 145.03 ..
3	.. 74.55 ..	.. 80.88 ..	.. 141.75 ..	3	.. 76.75 ..	.. 82.79 ..	.. 145.09 ..
2	.. 74.59 ..	.. 80.92 ..	.. 141.82 ..	2	.. 76.79 ..	.. 82.83 ..	.. 145.15 ..
1	.. 74.64 ..	.. 80.96 ..	.. 141.89 ..	1	.. 76.83 ..	.. 82.86 ..	.. 145.22 ..
0	.. 74.68 ..	.. 81.00 ..	.. 141.96 ..	0	.. 76.88 ..	.. 82.90 ..	.. 145.28 ..
·8609	.. 74.73 ..	.. 81.04 ..	142.03 ..	·8559	.. 76.92 ..	.. 82.93 ..	145.34 ..
8	.. 74.77 ..	.. 81.08 ..	.. 142.10 ..	8	.. 76.96 ..	.. 82.97 ..	.. 145.40 ..
7	.. 74.82 ..	.. 81.12 ..	.. 142.17 ..	7	.. 77.00 ..	.. 83.00 ..	.. 145.46 ..
6	.. 74.86 ..	.. 81.16 ..	.. 142.24 ..	6	.. 77.04 ..	.. 83.04 ..	.. 145.52 ..
5	.. 74.91 ..	.. 81.20 ..	.. 142.31 ..	5	.. 77.08 ..	.. 83.07 ..	.. 145.59 ..
4	.. 74.95 ..	.. 81.24 ..	.. 142.38 ..	4	.. 77.13 ..	.. 83.11 ..	.. 145.65 ..
3	.. 75.00 ..	.. 81.28 ..	.. 142.45 ..	3	.. 77.17 ..	.. 83.14 ..	.. 145.71 ..
2	.. 75.05 ..	.. 81.32 ..	.. 142.52 ..	2	.. 77.21 ..	.. 83.18 ..	.. 145.77 ..
1	.. 75.09 ..	.. 81.36 ..	.. 142.59 ..	1	.. 77.25 ..	.. 83.21 ..	.. 145.83 ..
0	.. 75.14 ..	.. 81.40 ..	.. 142.66 ..	0	.. 77.29 ..	.. 83.25 ..	.. 145.89 ..
·8599	.. 75.18 ..	.. 81.44 ..	142.73 ..	·8549	.. 77.33 ..	.. 83.28 ..	145.96 ..
8	.. 75.23 ..	.. 81.48 ..	.. 142.79 ..	8	.. 77.38 ..	.. 83.32 ..	.. 146.02 ..
7	.. 75.27 ..	.. 81.52 ..	.. 142.86 ..	7	.. 77.42 ..	.. 83.36 ..	.. 146.08 ..
6	.. 75.32 ..	.. 81.56 ..	.. 142.93 ..	6	.. 77.46 ..	.. 83.39 ..	.. 146.14 ..
5	.. 75.36 ..	.. 81.60 ..	.. 143.00 ..	5	.. 77.50 ..	.. 83.43 ..	.. 146.20 ..
4	.. 75.41 ..	.. 81.64 ..	.. 143.07 ..	4	.. 77.54 ..	.. 83.46 ..	.. 146.26 ..
3	.. 75.45 ..	.. 81.68 ..	.. 143.14 ..	3	.. 77.58 ..	.. 83.50 ..	.. 146.32 ..
2	.. 75.50 ..	.. 81.72 ..	.. 143.21 ..	2	.. 77.63 ..	.. 83.53 ..	.. 146.39 ..
1	.. 75.55 ..	.. 81.76 ..	.. 143.28 ..	1	.. 77.67 ..	.. 83.57 ..	.. 146.45 ..
0	.. 75.59 ..	.. 81.80 ..	.. 143.35 ..	0	.. 77.71 ..	.. 83.60 ..	.. 146.51 ..
·8589	.. 75.64 ..	.. 81.84 ..	143.42 ..	·8539	.. 77.75 ..	.. 83.64 ..	146.57 ..
8	.. 75.68 ..	.. 81.88 ..	.. 143.49 ..	8	.. 77.79 ..	.. 83.67 ..	.. 146.63 ..
7	.. 75.73 ..	.. 81.92 ..	.. 143.56 ..	7	.. 77.83 ..	.. 83.71 ..	.. 146.69 ..
6	.. 75.77 ..	.. 81.96 ..	.. 143.63 ..	6	.. 77.88 ..	.. 83.74 ..	.. 146.75 ..
5	.. 75.82 ..	.. 82.00 ..	.. 143.70 ..	5	.. 77.92 ..	.. 83.78 ..	.. 146.82 ..
4	.. 75.86 ..	.. 82.04 ..	.. 143.77 ..	4	.. 77.96 ..	.. 83.81 ..	.. 146.88 ..
3	.. 75.91 ..	.. 82.08 ..	.. 143.84 ..	3	.. 78.00 ..	.. 83.85 ..	.. 146.94 ..
2	.. 75.95 ..	.. 82.12 ..	.. 143.91 ..	2	.. 78.04 ..	.. 83.88 ..	.. 147.00 ..
1	.. 76.00 ..	.. 82.16 ..	.. 143.98 ..	1	.. 78.08 ..	.. 83.91 ..	.. 147.05 ..
0	.. 76.04 ..	.. 82.19 ..	.. 144.04 ..	0	.. 78.12 ..	.. 83.94 ..	.. 147.11 ..
·8579	.. 76.08 ..	.. 82.23 ..	144.10 ..	·8529	.. 78.16 ..	.. 83.98 ..	147.17 ..
8	.. 76.13 ..	.. 82.26 ..	.. 144.16 ..	8	.. 78.20 ..	.. 84.01 ..	.. 147.23 ..
7	.. 76.17 ..	.. 82.30 ..	.. 144.23 ..	7	.. 78.24 ..	.. 84.04 ..	.. 147.29 ..
6	.. 76.21 ..	.. 82.33 ..	.. 144.29 ..	6	.. 78.28 ..	.. 84.08 ..	.. 147.34 ..
5	.. 76.25 ..	.. 82.37 ..	.. 144.35 ..	5	.. 78.32 ..	.. 84.11 ..	.. 147.40 ..
4	.. 76.29 ..	.. 82.40 ..	.. 144.41 ..	4	.. 78.36 ..	.. 84.14 ..	.. 147.46 ..
3	.. 76.33 ..	.. 82.44 ..	.. 144.47 ..	3	.. 78.40 ..	.. 84.18 ..	.. 147.52 ..
2	.. 76.38 ..	.. 82.47 ..	.. 144.54 ..	2	.. 78.44 ..	.. 84.21 ..	.. 147.57 ..
1	.. 76.42 ..	.. 82.51 ..	.. 144.60 ..	1	.. 78.48 ..	.. 84.24 ..	.. 147.63 ..
0	.. 76.46 ..	.. 82.54 ..	.. 144.66 ..	0	.. 78.52 ..	.. 84.27 ..	.. 147.69 ..

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8519	78.56	84.31	147.75	8469	80.58	85.97	150.67
8	78.60	84.34	147.80	8	80.63	86.01	150.73
7	78.64	84.37	147.86	7	80.67	86.04	150.79
6	78.68	84.41	147.92	6	80.71	86.08	150.85
5	78.72	84.44	147.98	5	80.75	86.11	150.91
4	78.76	84.47	148.03	4	80.79	86.15	150.97
3	78.80	84.51	148.09	3	80.83	86.18	151.03
2	78.84	84.54	148.15	2	80.88	86.22	151.09
1	78.88	84.57	148.21	1	80.92	86.25	151.15
0	78.92	84.60	148.27	0	80.96	86.28	151.21
8509	78.96	84.64	148.32	8459	81.00	86.32	151.27
8	79.00	84.67	148.38	8	81.04	86.35	151.33
7	79.04	84.70	148.44	7	81.08	86.38	151.38
6	79.08	84.74	148.50	6	81.12	86.42	151.44
5	79.12	84.77	148.56	5	81.16	86.45	151.49
4	79.16	84.80	148.61	4	81.20	86.48	151.55
3	79.20	84.83	148.67	3	81.24	86.51	151.61
2	79.24	84.87	148.73	2	81.28	86.54	151.66
1	79.28	84.90	148.79	1	81.32	86.58	151.72
0	79.32	84.93	148.84	0	81.36	86.61	151.78
8499	79.36	84.97	148.90	8449	81.40	86.64	151.83
8	79.40	85.00	148.96	8	81.44	86.67	151.89
7	79.44	85.03	149.02	7	81.48	86.71	151.95
6	79.48	85.06	149.07	6	81.52	86.74	152.00
5	79.52	85.10	149.13	5	81.56	86.77	152.06
4	79.56	85.13	149.19	4	81.60	86.80	152.11
3	79.60	85.16	149.25	3	81.64	86.83	152.17
2	79.64	85.19	149.27	2	81.68	86.87	152.23
1	79.68	85.23	149.32	1	81.72	86.90	152.28
0	79.72	85.26	149.38	0	81.76	86.93	152.34
8489	79.76	85.29	149.44	8439	81.80	86.96	152.40
8	79.80	85.33	149.50	8	81.84	86.99	152.45
7	79.84	85.36	149.56	7	81.88	87.03	152.51
6	79.88	85.39	149.61	6	81.92	87.06	152.57
5	79.92	85.42	149.67	5	81.96	87.09	152.62
4	79.96	85.46	149.73	4	82.00	87.12	152.68
3	80.00	85.49	149.82	3	82.04	87.15	152.73
2	80.04	85.53	149.88	2	82.08	87.18	152.79
1	80.08	85.56	149.94	1	82.12	87.21	152.84
0	80.13	85.59	150.00	0	82.15	87.24	152.89
8479	80.17	85.63	150.06	8429	82.19	87.27	152.95
8	80.21	85.66	150.12	8	82.23	87.30	153.00
7	80.25	85.70	150.19	7	82.27	87.34	153.05
6	80.29	85.73	150.25	6	82.31	87.37	153.11
5	80.33	85.77	150.31	5	82.35	87.40	153.16
4	80.38	85.80	150.37	4	82.38	87.43	153.21
3	80.42	85.84	150.43	3	82.42	87.46	153.27
2	80.46	85.87	150.49	2	82.46	87.49	153.32
1	80.50	85.90	150.55	1	82.50	87.52	153.37
0	80.54	85.94	150.61	0	82.54	87.55	153.43

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8419	82.58	87.58	153.48	8369	84.52	89.11	156.16
8	82.62	87.61	153.53	8	84.56	89.14	156.21
7	82.65	87.64	153.59	7	84.60	89.17	156.27
6	82.69	87.67	153.64	6	84.64	89.20	156.33
5	82.73	87.70	153.69	5	84.68	89.24	156.38
4	82.77	87.73	153.75	4	84.72	89.27	156.44
3	82.81	87.76	153.80	3	84.76	89.30	156.49
2	82.85	87.79	153.85	2	84.80	89.33	156.55
1	82.88	87.82	153.91	1	84.84	89.36	156.60
0	82.92	87.85	153.96	0	84.88	89.39	156.66
8409	82.96	87.88	154.01	8359	84.92	89.42	156.71
8	83.00	87.91	154.07	8	84.96	89.46	156.77
7	83.04	87.94	154.12	7	85.00	89.49	156.82
6	83.08	87.97	154.17	6	85.04	89.52	156.87
5	83.12	88.00	154.23	5	85.08	89.55	156.93
4	83.15	88.03	154.28	4	85.12	89.58	156.98
3	83.19	88.06	154.33	3	85.15	89.61	157.03
2	83.23	88.09	154.38	2	85.19	89.64	157.08
1	83.27	88.13	154.44	1	85.23	89.67	157.13
0	83.31	88.16	154.49	0	85.27	89.70	157.19
8399	83.35	88.19	154.54	8349	85.31	89.72	157.24
8	83.38	88.22	154.60	8	85.35	89.75	157.29
7	83.42	88.25	154.65	7	85.38	89.78	157.34
6	83.46	88.28	154.70	6	85.42	89.81	157.39
5	83.50	88.31	154.75	5	85.46	89.84	157.45
4	83.54	88.34	154.81	4	85.50	89.87	157.50
3	83.58	88.37	154.86	3	85.54	89.90	157.55
2	83.62	88.40	154.91	2	85.58	89.93	157.60
1	83.65	88.43	154.97	1	85.62	89.96	157.65
0	83.69	88.46	155.02	0	85.65	89.99	157.71
8389	83.73	88.49	155.07	8339	85.69	90.02	157.76
8	83.77	88.52	155.13	8	85.73	90.05	157.81
7	83.81	88.55	155.18	7	85.77	90.08	157.86
6	83.85	88.58	155.23	6	85.81	90.11	157.91
5	83.88	88.61	155.28	5	85.85	90.14	157.97
4	83.92	88.64	155.34	4	85.88	90.17	158.02
3	83.96	88.67	155.39	3	85.92	90.20	158.07
2	84.00	88.70	155.44	2	85.96	90.23	158.12
1	84.04	88.73	155.50	1	86.00	90.26	158.17
0	84.08	88.76	155.55	0	86.04	90.29	158.23
8379	84.12	88.79	155.61	8329	86.08	90.32	158.28
8	84.16	88.83	155.66	8	86.12	90.35	158.33
7	84.20	88.86	155.72	7	86.15	90.38	158.38
6	84.24	88.89	155.77	6	86.19	90.40	158.43
5	84.28	88.92	155.83	5	86.23	90.43	158.48
4	84.32	88.95	155.88	4	86.27	90.46	158.53
3	84.36	88.98	155.94	3	86.31	90.49	158.59
2	84.40	89.01	155.99	2	86.35	90.52	158.64
1	84.44	89.05	156.05	1	86.38	90.55	158.69
0	84.48	89.08	156.10	0	86.42	90.58	158.74

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
·8319	.. 86.46 ..	.. 90.61 ..	158.79 ..	·8269	.. 88.40 ..	.. 92.08 ..	.. 161.37 ..
8	.. 86.50 ..	.. 90.64 ..	.. 158.84 ..	8	.. 88.44 ..	.. 92.12 ..	.. 161.43 ..
7	.. 86.54 ..	.. 90.67 ..	.. 158.90 ..	7	.. 88.48 ..	.. 92.15 ..	.. 161.48 ..
6	.. 86.58 ..	.. 90.70 ..	.. 158.95 ..	6	.. 88.52 ..	.. 92.18 ..	.. 161.53 ..
5	.. 86.62 ..	.. 90.73 ..	.. 159.00 ..	5	.. 88.56 ..	.. 92.21 ..	.. 161.59 ..
4	.. 86.65 ..	.. 90.76 ..	.. 159.05 ..	4	.. 88.60 ..	.. 92.24 ..	.. 161.64 ..
3	.. 86.69 ..	.. 90.79 ..	.. 159.10 ..	3	.. 88.64 ..	.. 92.27 ..	.. 161.70 ..
2	.. 86.73 ..	.. 90.82 ..	.. 159.15 ..	2	.. 88.68 ..	.. 92.30 ..	.. 161.75 ..
1	.. 86.77 ..	.. 90.85 ..	.. 159.20 ..	1	.. 88.72 ..	.. 92.33 ..	.. 161.80 ..
0	.. 86.81 ..	.. 90.88 ..	.. 159.26 ..	0	.. 88.76 ..	.. 92.36 ..	.. 161.86 ..
·8309	.. 86.85 ..	.. 90.90 ..	159.31 ..	·8259	.. 88.80 ..	.. 92.39 ..	161.91 ..
8	.. 86.88 ..	.. 90.93 ..	.. 159.36 ..	8	.. 88.84 ..	.. 92.42 ..	.. 161.96 ..
7	.. 86.92 ..	.. 90.96 ..	.. 159.41 ..	7	.. 88.88 ..	.. 93.45 ..	.. 162.02 ..
6	.. 86.96 ..	.. 90.99 ..	.. 159.46 ..	6	.. 88.92 ..	.. 92.48 ..	.. 162.07 ..
5	.. 87.00 ..	.. 91.02 ..	.. 159.51 ..	5	.. 88.96 ..	.. 92.51 ..	.. 162.12 ..
4	.. 87.04 ..	.. 91.05 ..	.. 159.57 ..	4	.. 89.00 ..	.. 92.54 ..	.. 162.18 ..
3	.. 87.08 ..	.. 91.08 ..	.. 159.62 ..	3	.. 89.04 ..	.. 92.57 ..	.. 162.23 ..
2	.. 87.12 ..	.. 91.11 ..	.. 159.67 ..	2	.. 89.08 ..	.. 92.60 ..	.. 162.28 ..
1	.. 87.15 ..	.. 91.14 ..	.. 159.72 ..	1	.. 89.12 ..	.. 92.63 ..	.. 162.33 ..
0	.. 87.19 ..	.. 91.17 ..	.. 159.77 ..	0	.. 89.16 ..	.. 92.66 ..	.. 162.38 ..
·8299	.. 87.23 ..	.. 91.20 ..	159.82 ..	·8249	.. 89.19 ..	.. 92.68 ..	.. 162.43 ..
8	.. 87.27 ..	.. 91.23 ..	.. 159.87 ..	8	.. 89.23 ..	.. 92.71 ..	.. 162.48 ..
7	.. 87.31 ..	.. 91.25 ..	.. 159.92 ..	7	.. 89.27 ..	.. 92.74 ..	.. 162.53 ..
6	.. 87.35 ..	.. 91.28 ..	.. 159.97 ..	6	.. 89.31 ..	.. 92.77 ..	.. 162.58 ..
5	.. 87.38 ..	.. 91.31 ..	.. 160.02 ..	5	.. 89.35 ..	.. 92.80 ..	.. 162.63 ..
4	.. 87.42 ..	.. 91.34 ..	.. 160.08 ..	4	.. 89.38 ..	.. 92.83 ..	.. 162.68 ..
3	.. 87.46 ..	.. 91.37 ..	.. 160.13 ..	3	.. 89.42 ..	.. 92.86 ..	.. 162.73 ..
2	.. 87.50 ..	.. 91.40 ..	.. 160.18 ..	2	.. 89.46 ..	.. 92.89 ..	.. 162.78 ..
1	.. 87.54 ..	.. 91.43 ..	.. 160.23 ..	1	.. 89.50 ..	.. 92.91 ..	.. 162.83 ..
0	.. 87.58 ..	.. 91.46 ..	.. 160.28 ..	0	.. 89.54 ..	.. 92.94 ..	.. 162.88 ..
·8289	.. 87.62 ..	.. 91.49 ..	160.33 ..	·8239	.. 89.58 ..	.. 92.97 ..	.. 162.93 ..
8	.. 87.65 ..	.. 91.52 ..	.. 160.38 ..	8	.. 89.62 ..	.. 93.00 ..	.. 162.98 ..
7	.. 87.69 ..	.. 91.55 ..	.. 160.43 ..	7	.. 89.65 ..	.. 93.03 ..	.. 163.03 ..
6	.. 87.73 ..	.. 91.57 ..	.. 160.48 ..	6	.. 89.69 ..	.. 93.06 ..	.. 163.08 ..
5	.. 87.77 ..	.. 91.60 ..	.. 160.53 ..	5	.. 89.73 ..	.. 93.09 ..	.. 163.13 ..
4	.. 87.81 ..	.. 91.63 ..	.. 160.59 ..	4	.. 89.77 ..	.. 93.11 ..	.. 163.18 ..
3	.. 87.85 ..	.. 91.66 ..	.. 160.64 ..	3	.. 89.81 ..	.. 93.14 ..	.. 163.23 ..
2	.. 87.88 ..	.. 91.69 ..	.. 160.69 ..	2	.. 89.85 ..	.. 93.17 ..	.. 163.28 ..
1	.. 87.92 ..	.. 91.72 ..	.. 160.74 ..	1	.. 89.88 ..	.. 93.20 ..	.. 163.33 ..
0	.. 87.96 ..	.. 91.75 ..	.. 160.79 ..	0	.. 89.92 ..	.. 93.23 ..	.. 163.38 ..
·8279	.. 88.00 ..	.. 91.78 ..	160.84 ..	·8229	.. 89.96 ..	.. 93.26 ..	.. 163.43 ..
8	.. 88.04 ..	.. 91.81 ..	.. 160.89 ..	8	.. 90.00 ..	.. 93.29 ..	.. 163.48 ..
7	.. 88.08 ..	.. 91.84 ..	.. 160.95 ..	7	.. 90.04 ..	.. 93.31 ..	.. 163.53 ..
6	.. 88.12 ..	.. 91.87 ..	.. 161.00 ..	6	.. 90.07 ..	.. 93.34 ..	.. 163.57 ..
5	.. 88.16 ..	.. 91.90 ..	.. 161.05 ..	5	.. 90.11 ..	.. 93.36 ..	.. 163.62 ..
4	.. 88.20 ..	.. 91.93 ..	.. 161.11 ..	4	.. 90.14 ..	.. 93.39 ..	.. 163.66 ..
3	.. 88.24 ..	.. 91.96 ..	.. 161.16 ..	3	.. 90.18 ..	.. 93.41 ..	.. 163.70 ..
2	.. 88.28 ..	.. 91.99 ..	.. 161.21 ..	2	.. 90.21 ..	.. 93.44 ..	.. 163.75 ..
1	.. 88.32 92.02 161.27 ..	1	.. 90.25 93.47 163.79 ..
0	.. 88.36 92.05 161.32 ..	0	.. 90.29 93.49 163.84 ..

ALCOHOL TABLES.

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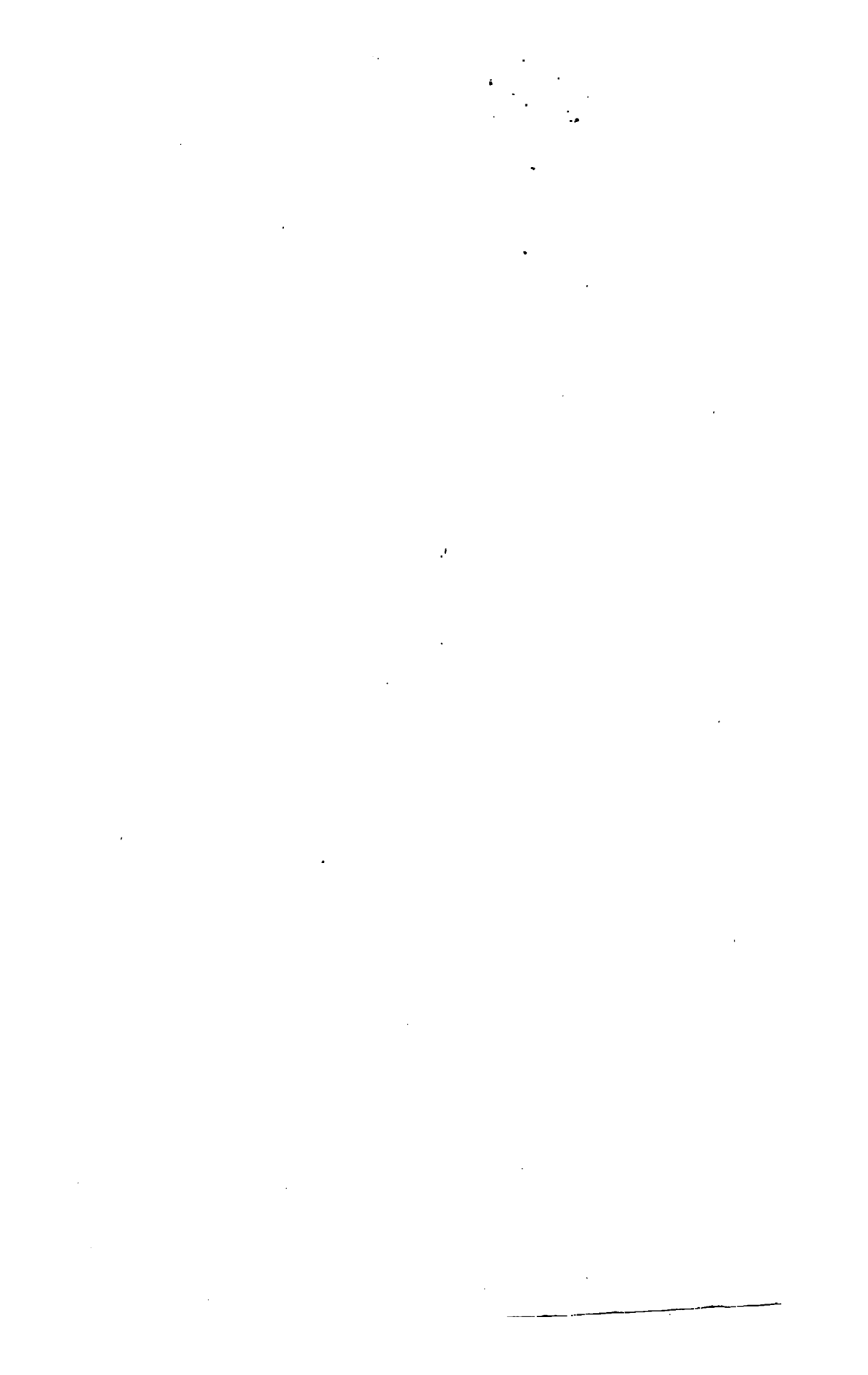
Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8219	90.32	93.52	163.88	8169	92.11	94.79	166.12
8	90.36	93.54	163.93	8	92.15	94.82	166.17
7	90.39	93.57	163.97	7	92.18	94.84	166.21
6	90.43	93.59	164.02	6	92.22	94.87	166.26
5	90.46	93.62	164.06	5	92.26	94.90	166.30
4	90.50	93.64	164.11	4	92.30	94.92	166.35
3	90.54	93.67	164.15	3	92.33	94.95	166.40
2	90.57	93.70	164.20	2	92.37	94.98	166.44
1	90.61	93.72	164.24	1	92.41	95.00	166.49
0	90.64	93.75	164.29	0	92.44	95.03	166.53
8209	90.68	93.77	164.33	8159	92.48	95.06	166.58
8	90.71	93.80	164.38	8	92.52	95.08	166.63
7	90.75	93.82	164.42	7	92.55	95.11	166.67
6	90.79	93.85	164.47	6	92.59	95.13	166.72
5	90.82	93.87	164.51	5	92.63	95.16	166.76
4	90.86	93.90	164.56	4	92.67	95.19	166.81
3	90.89	93.93	164.60	3	92.70	95.21	166.86
2	90.93	93.95	164.65	2	92.74	95.24	166.90
1	90.96	93.98	164.69	1	92.78	95.27	166.95
0	91.00	94.00	164.74	0	92.81	95.29	167.00
8199	91.04	94.03	164.78	8149	92.85	95.32	167.04
8	91.07	94.05	164.83	8	92.89	95.35	167.09
7	91.11	94.08	164.87	7	92.92	95.37	167.13
6	91.14	94.10	164.91	6	92.96	95.40	167.18
5	91.18	94.13	164.96	5	93.00	95.42	167.23
4	91.21	94.15	165.00	4	93.04	95.45	167.27
3	91.25	94.18	165.05	3	93.07	95.48	167.32
2	91.29	94.21	165.09	2	93.11	95.50	167.36
1	91.32	94.23	165.14	1	93.15	95.53	167.41
0	91.36	94.26	165.18	0	93.18	95.55	167.46
8189	91.39	94.28	165.23	8139	93.22	95.58	167.50
8	91.43	94.31	165.27	8	93.26	95.61	167.55
7	91.46	94.33	165.31	7	93.30	95.63	167.59
6	91.50	94.36	165.36	6	93.33	95.66	167.64
5	91.54	94.38	165.40	5	93.37	95.69	167.69
4	91.57	94.41	165.45	4	93.41	95.71	167.73
3	91.61	94.43	165.49	3	93.44	95.74	167.78
2	91.64	94.46	165.54	2	93.48	95.76	167.82
1	91.68	94.48	165.58	1	93.52	95.79	167.87
0	91.71	94.51	165.62	0	93.55	95.82	167.92
8179	91.75	94.53	165.67	8129	93.59	95.84	167.96
8	91.79	94.56	165.71	8	93.63	95.87	168.01
7	91.82	94.59	165.76	7	93.67	95.90	168.05
6	91.86	94.61	165.80	6	93.70	95.92	168.10
5	91.89	94.64	165.85	5	93.74	95.95	168.15
4	91.93	94.66	165.89	4	93.78	95.97	168.19
3	91.96	94.69	165.94	3	93.81	96.00	168.24
2	92.00	94.71	165.98	2	93.85	96.03	168.28
1	92.04	94.74	166.03	1	93.89	96.05	168.33
0	92.07	94.76	166.07	0	93.92	96.08	168.38

Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit per cent.
·8119	.. 93·96 ..	.. 96·11 ..	.. 168·42 ..	·8069	.. 95·71 ..	.. 97·29 ..	170·50 ..
8	.. 94·00 ..	.. 96·13 ..	.. 168·47 ..	8	.. 95·75 ..	.. 97·32 ..	.. 170·54 ..
7	.. 94·03 ..	.. 96·16 ..	.. 168·51 ..	7	.. 95·79 ..	.. 97·34 ..	.. 170·59 ..
6	.. 94·07 ..	.. 96·18 ..	.. 168·55 ..	6	.. 95·82 ..	.. 97·37 ..	.. 170·63 ..
5	.. 94·10 ..	.. 96·20 ..	.. 168·59 ..	5	.. 95·86 ..	.. 97·39 ..	.. 170·67 ..
4	.. 94·14 ..	.. 96·22 ..	.. 168·63 ..	4	.. 95·89 ..	.. 97·41 ..	.. 170·72 ..
3	.. 94·17 ..	.. 96·25 ..	.. 168·67 ..	3	.. 95·93 ..	.. 97·44 ..	.. 170·76 ..
2	.. 94·21 ..	.. 96·27 ..	.. 168·71 ..	2	.. 95·96 ..	.. 97·46 ..	.. 170·80 ..
1	.. 94·24 ..	.. 96·29 ..	.. 168·75 ..	1	.. 96·00 ..	.. 97·49 ..	.. 170·84 ..
0	.. 94·28 ..	.. 96·32 ..	.. 168·79 ..	0	.. 96·03 ..	.. 97·51 ..	.. 170·88 ..
·8109	.. 94·31 ..	.. 96·34 ..	.. 168·84 ..	·8059	.. 96·07 ..	.. 97·53 ..	.. 170·92 ..
8	.. 94·34 ..	.. 96·36 ..	.. 168·88 ..	8	.. 96·10 ..	.. 97·55 ..	.. 170·96 ..
7	.. 94·38 ..	.. 96·39 ..	.. 168·92 ..	7	.. 96·13 ..	.. 97·57 ..	.. 171·00 ..
6	.. 94·41 ..	.. 96·41 ..	.. 168·96 ..	6	.. 96·16 ..	.. 97·60 ..	.. 171·03 ..
5	.. 94·45 ..	.. 96·43 ..	.. 169·00 ..	5	.. 96·20 ..	.. 97·62 ..	.. 171·07 ..
4	.. 94·48 ..	.. 96·46 ..	.. 169·04 ..	4	.. 96·23 ..	.. 97·64 ..	.. 171·11 ..
3	.. 94·52 ..	.. 96·48 ..	.. 169·08 ..	3	.. 96·26 ..	.. 97·66 ..	.. 171·15 ..
2	.. 94·55 ..	.. 96·50 ..	.. 169·12 ..	2	.. 96·30 ..	.. 97·68 ..	.. 171·19 ..
1	.. 94·59 ..	.. 96·53 ..	.. 169·16 ..	1	.. 96·33 ..	.. 97·70 ..	.. 171·22 ..
0	.. 94·62 ..	.. 96·55 ..	.. 169·20 ..	0	.. 96·37 ..	.. 97·73 ..	.. 171·26 ..
·8099	.. 94·66 ..	.. 96·57 ..	.. 169·24 ..	·8049	.. 96·40 ..	.. 97·75 ..	171·30 ..
8	.. 94·69 ..	.. 96·60 ..	.. 169·28 ..	8	.. 96·43 ..	.. 97·77 ..	.. 171·34 ..
7	.. 94·73 ..	.. 96·62 ..	.. 169·32 ..	7	.. 96·46 ..	.. 97·79 ..	.. 171·37 ..
6	.. 94·76 ..	.. 96·64 ..	.. 169·36 ..	6	.. 96·50 ..	.. 97·81 ..	.. 171·41 ..
5	.. 94·80 ..	.. 96·67 ..	.. 169·40 ..	5	.. 96·53 ..	.. 97·83 ..	.. 171·45 ..
4	.. 94·83 ..	.. 96·69 ..	.. 169·44 ..	4	.. 96·57 ..	.. 97·86 ..	.. 171·49 ..
3	.. 94·86 ..	.. 96·71 ..	.. 169·48 ..	3	.. 96·60 ..	.. 97·88 ..	.. 171·53 ..
2	.. 94·90 ..	.. 96·74 ..	.. 169·52 ..	2	.. 96·63 ..	.. 97·90 ..	.. 171·56 ..
1	.. 94·93 ..	.. 96·76 ..	.. 169·57 ..	1	.. 96·66 ..	.. 97·92 ..	.. 171·60 ..
0	.. 94·97 ..	.. 96·78 ..	.. 169·61 ..	0	.. 96·70 ..	.. 97·94 ..	.. 171·64 ..
·8089	.. 95·00 ..	.. 96·80 ..	169·65 ..	·8039	.. 96·73 ..	.. 97·96 ..	171·68 ..
8	.. 95·04 ..	.. 96·83 ..	.. 169·69 ..	8	.. 96·76 ..	.. 97·98 ..	.. 171·72 ..
7	.. 95·07 ..	.. 96·85 ..	.. 169·73 ..	7	.. 96·80 ..	.. 98·01 ..	.. 171·75 ..
6	.. 95·11 ..	.. 96·88 ..	.. 169·78 ..	6	.. 96·83 ..	.. 98·03 ..	.. 171·79 ..
5	.. 95·14 ..	.. 96·90 ..	.. 169·82 ..	5	.. 96·87 ..	.. 98·05 ..	.. 171·83 ..
4	.. 95·18 ..	.. 96·93 ..	.. 169·86 ..	4	.. 96·90 ..	.. 98·07 ..	.. 171·87 ..
3	.. 95·21 ..	.. 96·95 ..	.. 169·90 ..	3	.. 96·93 ..	.. 98·09 ..	.. 171·91 ..
2	.. 95·25 ..	.. 96·98 ..	.. 169·95 ..	2	.. 96·96 ..	.. 98·11 ..	.. 171·94 ..
1	.. 95·29 ..	.. 97·00 ..	.. 169·99 ..	1	.. 97·00 ..	.. 98·14 ..	.. 171·98 ..
0	.. 95·32 ..	.. 97·02 ..	.. 170·03 ..	0	.. 97·03 ..	.. 98·16 ..	.. 172·02 ..
·8079	.. 95·36 ..	.. 97·05 ..	170·07 ..	·8029	.. 97·07 ..	.. 98·18 ..	172·05 ..
8	.. 95·39 ..	.. 97·07 ..	.. 170·12 ..	8	.. 97·10 ..	.. 98·20 ..	.. 172·09 ..
7	.. 95·43 ..	.. 97·10 ..	.. 170·16 ..	7	.. 97·13 ..	.. 98·22 ..	.. 172·13 ..
6	.. 95·46 ..	.. 97·12 ..	.. 170·20 ..	6	.. 97·16 ..	.. 98·24 ..	.. 172·17 ..
5	.. 95·50 ..	.. 97·15 ..	.. 170·25 ..	5	.. 97·20 ..	.. 98·27 ..	.. 172·20 ..
4	.. 95·54 ..	.. 97·17 ..	.. 170·29 ..	4	.. 97·23 ..	.. 98·29 ..	.. 172·24 ..
3	.. 95·57 ..	.. 97·20 ..	.. 170·33 ..	3	.. 97·26 ..	.. 98·31 ..	.. 172·28 ..
2	.. 95·61 ..	.. 97·22 ..	.. 170·37 ..	2	.. 97·30 ..	.. 98·33 ..	.. 172·32 ..
1	.. 95·64 97·24 170·42 ..	1	.. 97·33 98·35 172·35 ..
0	.. 95·68 97·27 170·46 ..	0	.. 97·37 98·37 172·39 ..

ALCOHOL TABLES.

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Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.	Sp. Gravity at 60° F. = 15.5° C.	Absolute Alcohol by weight; per cent.	Absolute Alcohol by volume; per cent.	Proof Spirit; per cent.
8019	.. 97.40 ..	.. 98.39 ..	172.43 ..	7969	.. 99.00 ..	.. 99.37 ..	174.17 ..
8	.. 97.43 ..	.. 98.42 ..	.. 172.47 ..	8	.. 99.03 ..	.. 99.39 ..	.. 174.21 ..
7	.. 97.46 ..	.. 98.44 ..	.. 172.50 ..	7	.. 99.06 ..	.. 99.41 ..	.. 174.24 ..
6	.. 97.50 ..	.. 98.46 ..	.. 172.54 ..	6	.. 99.10 ..	.. 99.43 ..	.. 174.28 ..
5	.. 97.53 ..	.. 98.48 ..	.. 172.58 ..	5	.. 99.13 ..	.. 99.45 ..	.. 174.31 ..
4	.. 97.57 ..	.. 98.50 ..	.. 172.62 ..	4	.. 99.16 ..	.. 99.47 ..	.. 174.35 ..
3	.. 97.60 ..	.. 98.52 ..	.. 172.65 ..	3	.. 99.19 ..	.. 99.49 ..	.. 174.38 ..
2	.. 97.63 ..	.. 98.54 ..	.. 172.69 ..	2	.. 99.23 ..	.. 99.51 ..	.. 174.42 ..
1	.. 97.66 ..	.. 98.56 ..	.. 172.73 ..	1	.. 99.26 ..	.. 99.53 ..	.. 174.45 ..
0	.. 97.70 ..	.. 98.59 ..	.. 172.77 ..	0	.. 99.29 ..	.. 99.55 ..	.. 174.49 ..
8009	.. 97.73 ..	.. 98.61 ..	172.80 ..	7959	.. 99.32 ..	.. 99.57 ..	174.52 ..
8	.. 97.76 ..	.. 98.63 ..	.. 172.84 ..	8	.. 99.36 ..	.. 99.59 ..	.. 174.55 ..
7	.. 97.80 ..	.. 98.65 ..	.. 172.88 ..	7	.. 99.39 ..	.. 99.61 ..	.. 174.59 ..
6	.. 97.83 ..	.. 98.67 ..	.. 172.92 ..	6	.. 99.42 ..	.. 99.63 ..	.. 174.62 ..
5	.. 97.87 ..	.. 98.69 ..	.. 172.95 ..	5	.. 99.45 ..	.. 99.65 ..	.. 174.66 ..
4	.. 97.90 ..	.. 98.71 ..	.. 172.99 ..	4	.. 99.48 ..	.. 99.67 ..	.. 174.69 ..
3	.. 97.93 ..	.. 98.74 ..	.. 173.03 ..	3	.. 99.52 ..	.. 99.69 ..	.. 174.73 ..
2	.. 97.96 ..	.. 98.76 ..	.. 173.07 ..	2	.. 99.55 ..	.. 99.71 ..	.. 174.76 ..
1	.. 98.00 ..	.. 98.78 ..	.. 173.10 ..	1	.. 99.58 ..	.. 99.73 ..	.. 174.80 ..
0	.. 98.03 ..	.. 98.80 ..	.. 173.14 ..	0	.. 99.61 ..	.. 99.75 ..	.. 174.83 ..
7999	.. 98.06 ..	.. 98.82 ..	173.17 ..	7949	.. 99.65 ..	.. 99.77 ..	174.87 ..
8	.. 98.09 ..	.. 98.83 ..	.. 173.20 ..	8	.. 99.68 ..	.. 99.80 ..	.. 174.90 ..
7	.. 98.12 ..	.. 98.85 ..	.. 173.24 ..	7	.. 99.71 ..	.. 99.82 ..	.. 174.94 ..
6	.. 98.16 ..	.. 98.87 ..	.. 173.27 ..	6	.. 99.74 ..	.. 99.84 ..	.. 174.97 ..
5	.. 98.19 ..	.. 98.89 ..	.. 173.30 ..	5	.. 99.78 ..	.. 99.86 ..	.. 175.01 ..
4	.. 98.22 ..	.. 98.91 ..	.. 173.34 ..	4	.. 99.81 ..	.. 99.88 ..	.. 175.04 ..
3	.. 98.25 ..	.. 98.93 ..	.. 173.37 ..	3	.. 99.84 ..	.. 99.90 ..	.. 175.08 ..
2	.. 98.28 ..	.. 98.94 ..	.. 173.40 ..	2	.. 99.87 ..	.. 99.92 ..	.. 175.11 ..
1	.. 98.31 ..	.. 98.96 ..	.. 173.44 ..	1	.. 99.90 ..	.. 99.94 ..	.. 175.15 ..
0	.. 98.34 ..	.. 98.98 ..	.. 173.47 ..	0	.. 99.94 ..	.. 99.96 ..	.. 175.18 ..
7989	.. 98.37 ..	.. 99.00 ..	173.50 ..	7939	.. 99.97 ..	.. 99.98 ..	175.22 ..
8	.. 98.41 ..	.. 99.02 ..	.. 173.54 ..	Absolute Alcohol.			
7	.. 98.44 ..	.. 99.04 ..	.. 173.57 ..	7938	.. 100.00 ..	.. 100.00 ..	.. 175.25 ..
6	.. 98.47 ..	.. 99.05 ..	.. 173.60 ..				
5	.. 98.50 ..	.. 99.07 ..	.. 173.64 ..				
4	.. 98.53 ..	.. 99.09 ..	.. 173.67 ..				
3	.. 98.56 ..	.. 99.11 ..	.. 173.71 ..				
2	.. 98.59 ..	.. 99.13 ..	.. 173.74 ..				
1	.. 98.62 ..	.. 99.15 ..	.. 173.77 ..				
0	.. 98.66 ..	.. 99.16 ..	.. 173.81 ..				
7979	.. 98.69 ..	.. 99.18 ..	173.84 ..				
8	.. 98.72 ..	.. 99.20 ..	.. 173.87 ..				
7	.. 98.75 ..	.. 99.22 ..	.. 173.91 ..				
6	.. 98.78 ..	.. 99.24 ..	.. 173.94 ..				
5	.. 98.81 ..	.. 99.26 ..	.. 173.97 ..				
4	.. 98.84 99.27 174.01 ..				
3	.. 98.87 99.29 174.04 ..				
2	.. 98.91 99.31 174.07 ..				
1	.. 98.94 99.33 174.11 ..				
0	.. 98.97 99.35 174.14 ..				



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